

## Rabbit anti-Human, Mouse JMY Polyclonal Antibody | anti-JMY antibody

JMY Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                 |
|-----------|--------|--------------|--------------------------------------------------------------|
| AAA323716 | Rabbit | Human, Mouse | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

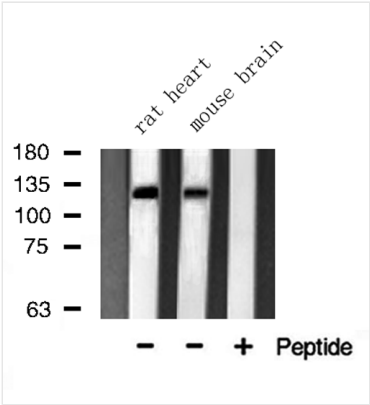
### PRODUCT SYNONYMS

JMY; Polyclonal Antibody; JMY Antibody; FLJ37870; Jmy; JMY protein; JMY\_HUMAN; junction mediating and regulatory protein; Junction mediating and regulatory protein p53 cofactor; Junction-mediating and-regulatory protein; MGC163496; OTTHUMP00000161976; WAS protein homology region 2 domain containing 1-like 3; WHDC1L3; anti-JMY antibody

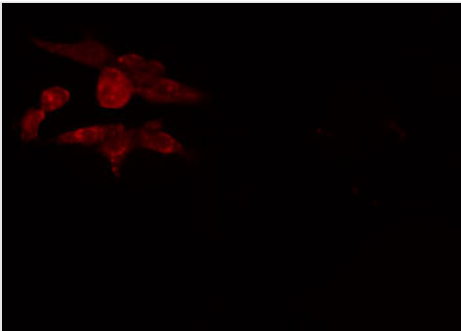
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                    | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                   | JMY antibody detects endogenous levels of total JMY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                   | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence Length                               | 988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-JMY antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen                                     | A synthesized peptide derived from human JMY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Subcellular Location                          | Nucleus. Cytoplasm > Cytoskeleton. Localizes to the nucleus in most cell types. Accumulates in nucleus under DNA damage conditions, increasing p53/TP53 transcription response and reducing its influence on cell motility (By similarity). In primary neutrophils, it colocalizes with actin filaments at the leading edge and is excluded from the nucleus. Localization correlates with motility, because it moves from the nucleus to the cytoplasmic compartment when cells are differentiated from nonmotile cells into highly motile neutrophil-like cells. |
| Tissue Specificity                            | By E2F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Predicted Cross Reactivity                    | Zebrafish, Bovine, Horse, Sheep, Dog, Chicken, Xenopus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Similarity                                    | Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

IMAGES



**WB (Western Blot)**  
Western blot analysis of JMY using Jurkat whole cell lysates



**IF (Immunofluorescence)**  
AAA323716 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-JMY antibody</b> | <p>Function: Acts both as a nuclear p53/TP53-cofactor and a cytoplasmic regulator of actin dynamics depending on conditions. In nucleus, acts as a cofactor that increases p53/TP53 response via its interaction with p300/EP300. Increases p53/TP53-dependent transcription and apoptosis, suggesting an important role in p53/TP53 stress response such as DNA damage. In cytoplasm, acts as a nucleation-promoting factor for both branched and unbranched actin filaments. Activates the Arp2/3 complex to induce branched actin filament networks. Also catalyzes actin polymerization in the absence of Arp2/3, creating unbranched filaments. Contributes to cell motility by controlling actin dynamics. May promote the rapid formation of a branched actin network by first nucleating new mother filaments and then activating Arp2/3 to branch off these filaments. The p53/TP53-cofactor and actin activator activities are regulated via its subcellular location (By similarity).</p> <p>Subunit Structure: Interacts with p300/EP300, the complex being recruited to activated p53/TP53. Interacts with TTC5 (By similarity).</p> <p>Post-translational Modifications: Ubiquitinated by MDM2, leading to its subsequent degradation by the proteasome. In case of DNA damage, the interaction with MDM2 is altered, preventing degradation and allowing interaction with p300/EP300 and its function in p53/TP53 stress response (By similarity).</p> <p>Similarity: Belongs to the JMY family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 289547556                                               |
| NCBI GeneID                      | 133746                                                  |
| NCBI Accession #                 | NP_689618.4                                             |
| NCBI GenBank Nucleotide #        | NM_152405.4                                             |
| UniProt Accession #              | Q8N9B5; A1L4P5; B5MDS2; B5MDT0                          |
| Molecular Weight                 | Observed: 130 kD<br>Predicted: 112 kDa                  |
| NCBI Official Full Name          | junction-mediating and -regulatory protein              |
| NCBI Official Synonym Full Names | junction mediating and regulatory protein, p53 cofactor |
| NCBI Official Symbol             | JMY                                                     |
| NCBI Official Synonym Symbols    | WHAMM2; WHDC1L3                                         |
| NCBI Protein Information         | junction-mediating and -regulatory protein              |
| UniProt Protein Name             | Junction-mediating and -regulatory protein              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/jmy-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323716>