

## Mouse anti-Human TRIM24 Monoclonal Antibody | anti-TRIM24 antibody

Anti-TRIM24 Antibody Picoband (monoclonal, 4G6C2)

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                |
|-----------|-------|------------|-----------------------------------------------------------------------------|
| AAA19707  | Mouse | Human      | Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence |

### PRODUCT SYNONYMS

TRIM24; Monoclonal Antibody; Anti-TRIM24 Antibody Picoband (monoclonal; 4G6C2); anti-TRIM24 antibody

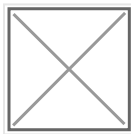
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                      |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                      |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                 |
| Isotype                                          | Mouse IgG1                                                                                                                                                                                                                                                                                 |
| Clone Number                                     | 4G6C2                                                                                                                                                                                                                                                                                      |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                                                                                                               |
| Form/Format                                      | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                |
| Concentration                                    | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                  |
| Applicable Applications for anti-TRIM24 antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence)                                                                                                                                                                                          |
| Application Notes                                | WB: 0.25-0.5 ug/ml, Human<br>IHC-P: 2-5 ug/ml, Human<br>ICC/IF: 5 ug/ml, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti- IgG for Western blot, and HRP Conjugated anti- IgG Super Vision Assay Kit for IHC(P) and ICC. |
| Reconstitution                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                  |
| Immunogen                                        | E Coli-derived human TRIM24 recombinant protein (Position: A706-D964).                                                                                                                                                                                                                     |
| Preparation and Storage                          | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.                                                               |



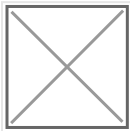
IF (Immunofluorescence)

Figure 6. IF analysis of TRIM24 using anti-TRIM24 antibody (AAA19707).TRIM24 was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-TRIM24 Antibody (AAA19707) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



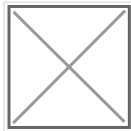
IHC (Immunohistochemistry)

Figure 5. IHC analysis of TRIM24 using anti-TRIM24 antibody (AAA19707).TRIM24 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-TRIM24 Antibody (AAA19707) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of TRIM24 using anti-TRIM24 antibody (AAA19707).TRIM24 was detected in a paraffin-embedded section of human ovarian serous tumor tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-TRIM24 Antibody (AAA19707) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



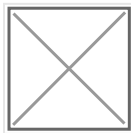
IHC (Immunohistochemistry)

Figure 3. IHC analysis of TRIM24 using anti-TRIM24 antibody (AAA19707).TRIM24 was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-TRIM24 Antibody (AAA19707) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of TRIM24 using anti-TRIM24 antibody (AAA19707).TRIM24 was detected in a paraffin-embedded section of human adenocarcinoma of the colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-TRIM24 Antibody (AAA19707) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of TRIM24 using anti-TRIM24 antibody (AAA19707).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human MCF-7 whole cell lysates,Lane 3: human HepG2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-TRIM24 antigen affinity purified monoclonal antibody (#AAA19707) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TRIM24 at approximately 130 kDa. The expected band size for TRIM24 is at 117 kDa.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TRIM24 antibody | Tripartite motif-containing 24 (TRIM24) also known as transcriptional intermediary factor 1alpha (TIF1alpha) is a protein that, in humans, is encoded by the TRIM24 gene. The protein encoded by this gene mediates transcriptional control by interaction with the activation function 2 (AF2) region of several nuclear receptors, including the estrogen, retinoic acid, and vitamin D3 receptors. The protein localizes to nuclear bodies and is thought to associate with chromatin and heterochromatin-associated factors. The protein is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains - a RING, a B-box type 1 and a B-box type 2 - and a coiled-coil region. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. |
| Product Categories/Family for anti-TRIM24 antibody   | Primary Antibodies, Mouse Monoclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|           |          |
|-----------|----------|
| NCBI GI # | 47419909 |
|-----------|----------|

|                                  |                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | 8805                                                                                                                                                                                     |
| NCBI Accession #                 | NP_003843.3                                                                                                                                                                              |
| NCBI GenBank Nucleotide #        | NM_003852.3                                                                                                                                                                              |
| UniProt Accession #              | O15164; O95854; A4D1R7; A4D1R8                                                                                                                                                           |
| Molecular Weight                 | 116,831 Da                                                                                                                                                                               |
| NCBI Official Full Name          | transcription intermediary factor 1-alpha isoform b                                                                                                                                      |
| NCBI Official Synonym Full Names | tripartite motif containing 24                                                                                                                                                           |
| NCBI Official Symbol             | TRIM24                                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | PTC6; TF1A; TIF1; RNF82; TIF1A; hTIF1; TIF1ALPHA                                                                                                                                         |
| NCBI Protein Information         | transcription intermediary factor 1-alpha; TIF1-alpha; RING finger protein 82; tripartite motif-containing 24; E3 ubiquitin-protein ligase TRIM24; transcriptional intermediary factor 1 |
| UniProt Protein Name             | Transcription intermediary factor 1-alpha                                                                                                                                                |
| UniProt Gene Name                | <b>TRIM24</b>                                                                                                                                                                            |
| UniProt Synonym Gene Names       | RNF82; TIF1; TIF1A; TIF1-alpha                                                                                                                                                           |
| UniProt Entry Name               | TIF1A_HUMAN                                                                                                                                                                              |

**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/monoclonal/trim24-antibody-clone-4g6c2-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-elisa/19707>