

## Rabbit anti-Human MYO1A Polyclonal Antibody | anti-MYO1A antibody

MYO1A Antibody (Center S291)

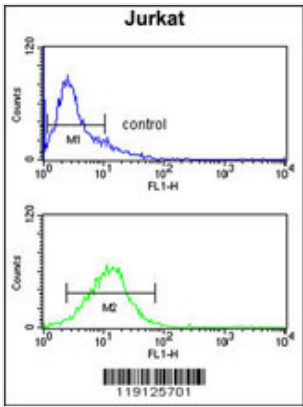
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA288464 | Rabbit | Human      | Flow Cytometry, Functional Assay, ELISA, Western Blot |

### PRODUCT SYNONYMS

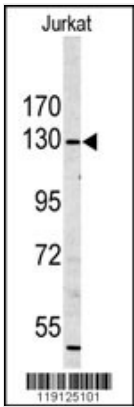
MYO1A; Polyclonal Antibody; MYO1A Antibody (Center S291); Unconventional myosin-Ia; Brush border myosin I; BBM-I; BBMI; Myosin I heavy chain; MIHC; MYHL; anti-MYO1A antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                    |
| Reactivity                                      | Human                                                                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                                                                |
| Isotype                                         | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                     | This MYO1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 276-304 amino acids from the Central region of human MYO1A.                       |
| Purity/Purification                             | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                   | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                              | 276-304                                                                                                                                                                                   |
| Sequence Length                                 | 1,043                                                                                                                                                                                     |
| Applicable Applications for anti-MYO1A antibody | FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)                                                                                                                                       |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                  | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |



**FCM/FACS (Flow Cytometry)**  
MYO1A Antibody (Center S291) flow cytometry analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**WB (Western Blot)**  
Western blot analysis of MYO1A antibody (Center S291) in Jurkat cell line lysates (35ug/lane). MYO1A (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MYO1A antibody | MYO1A belongs to the myosin superfamily. Myosins are molecular motors that, upon interaction with actin filaments, utilize energy from ATP hydrolysis to generate mechanical force. Each myosin has a conserved N-terminal motor domain that contains both ATP-binding and actin-binding sequences. Following the motor domain is a light-chain-binding 'neck' region containing 1-6 copies of a repeat element, the IQ motif, that serves as a binding site for calmodulin or other members of the EF-hand superfamily of calcium-binding proteins. At the C-terminus, each myosin class has a distinct tail domain that serves in dimerization, membrane binding, protein binding, and/or enzymatic activities and targets each myosin to its particular subcellular location. The kidney epithelial cell line, LLC-PK1-CL4 (CL4), forms a well ordered brush border (BB) on its apical surface. Experiments indicate that the brush border population of the protein turns over rapidly, while its head and tail domains interact transiently with the core actin and plasma membrane, respectively. A rapidly exchanging pool of the protein envelops an actin core bundle that, by comparison, is static in structure. |
| Product Categories/Family for anti-MYO1A antibody   | Neuroscience; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                          | D'Adamo,P., Pinna,M. Hum. Genet. 112 (3), 319-320 (2003)<br>Hoshimaru,M., Fujio,Y. J. Biochem. 106 (3), 455-459 (1989)<br>Durrbach,A., Collins,K. Proc. Natl. Acad. Sci. U.S.A. 93 (14), 7053-7058 (1996)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                                  |                             |
|----------------------------------|-----------------------------|
| NCBI GI #                        | 365733629                   |
| NCBI GeneID                      | 4640                        |
| NCBI Accession #                 | NP_001242970.1; NP_005370.1 |
| NCBI GenBank Nucleotide #        | NM_001256041.1              |
| UniProt Accession #              | Q9UBC5; Q9UQD7              |
| Molecular Weight                 | 118401                      |
| NCBI Official Full Name          | unconventional myosin-Ia    |
| NCBI Official Synonym Full Names | myosin IA                   |
| NCBI Official Symbol             | MYO1A                       |
| NCBI Official Synonym Symbols    | BBMI; MIHC; MYHL; DFNA48    |
| NCBI Protein Information         | unconventional myosin-Ia    |

|                            |                          |
|----------------------------|--------------------------|
| UniProt Protein Name       | Unconventional myosin-Ia |
| UniProt Gene Name          | MYO1A                    |
| UniProt Synonym Gene Names | MYHL; BBM-I; BBMI; MIHC  |
| UniProt Entry Name         | MYO1A_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/polyclonal/myo1a-antibody-flow-cytometry-western-blot-elisa/288464>