



# Anti-MYO1A (aa 944-1043) polyclonal antibody (DPAB-DC1984)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Antigen Description</b> | This gene encodes a member of the myosin superfamily. The protein represents an unconventional myosin; it should not be confused with the conventional skeletal muscle myosin-1 (MYH1). Unconventional myosins contain the basic domains characteristic of conventional myosins and are further distinguished from class members by their tail domains. They function as actin-based molecular motors. Mutations in this gene have been associated with autosomal dominant deafness. Alternatively spliced variants have been found for this gene. |
| <b>Immunogen</b>           | MYO1A (NP_005370, 944 a.a. ~ 1043 a.a) partial recombinant protein with GST tag.<br>The sequence is<br>SVTSLKDGLFSLHLSEMSSVGSKGDFLLVSEHVIELLTKMYRAVLDTQRQLTVTVTEKF<br>SVRFKENSVAVKVVQGPAGGDNSKLRYKKKGSHCLEVTVQ   |
| <b>Source/Host</b>         | Mouse  |
| <b>Species Reactivity</b>  | Human  |
| <b>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | WB (Recombinant protein), ELISA,   |
| <b>Size</b>                | 50 µl  |
| <b>Buffer</b>              | 50 % glycerol  |
| <b>Preservative</b>        | None   |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.   |

## GENE INFORMATION

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|----------------------------|--|
| <b>Gene Name</b>           | <a href="#">MYO1A myosin IA [ Homo sapiens (human) ]</a>   |
| <b>Official Symbol</b>     | MYO1A  |
| <b>Synonyms</b>            | MYO1A; myosin IA; BBMI; MIHC; MYHL; DFNA48; unconventional myosin-Ia; myosin I heavy chain; brush border myosin I; myosin, heavy polypeptide-like (100kD); |
| <b>Entrez Gene ID</b>      | <a href="#">4640</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_001242970</a>   |
| <b>UniProt ID</b>          | <a href="#">B2R643</a>   |
| <b>Chromosome Location</b> | 12q13-q14  |
| <b>Function</b>            | ATP binding; actin binding; calmodulin binding; motor activity   |