



# Anti-MYO3A (aa 1400-1490) polyclonal antibody (DPAB-DC2291)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene belongs to the myosin superfamily. Myosins are actin-dependent motor proteins and are categorized into conventional myosins (class II) and unconventional myosins (classes I and III through XV) based on their variable C-terminal cargo-binding domains. Class III myosins, such as this one, have a kinase domain N-terminal to the conserved N-terminal motor domains and are expressed in photoreceptors. The protein encoded by this gene plays an important role in hearing in humans. Three different recessive, loss of function mutations in the encoded protein have been shown to cause nonsyndromic progressive hearing loss. Expression of this gene is highly restricted, with the strongest expression in retina and cochlea.
<b>Immunogen</b>	MYO3A (NP_059129, 1400 a.a. ~ 1490 a.a) partial recombinant protein with GST tag. The sequence is HEEINNIKKKDNKDSKATSEREACGLAIFSKQISKLSEEYFILQKKLNEMILSQQLKSLY LGVSHHKPINRRVSSQQCLSGVCKGEEKPKIL
<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

Gene Name	<a href="#">MYO3A myosin IIIA [ Homo sapiens (human) ]</a>
Official Symbol	MYO3A
Synonyms	MYO3A; myosin IIIA; DFNB30; myosin-IIIa;
Entrez Gene ID	<a href="#">53904</a>
Protein Refseq	<a href="#">NP_059129</a>
UniProt ID	<a href="#">Q8NEV4</a>
Chromosome Location	10p11.1
Function	ADP binding; ATP binding; actin filament binding; actin-dependent ATPase activity