

Recombinant Human MYO3A cell lysate

Cat. No. MYO3A-1160HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	MYO3A myosin IIIA [Homo sapiens]
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	MYO3A
Synonyms	MYO3A; myosin IIIA; deafness, autosomal recessive 30 , DFNB30; myosin-IIIa; DFNB30;
Gene ID	53904
mRNA Refseq	NM_017433
Protein Refseq	NP_059129
MIM	606808
UniProt ID	Q8NEV4
Chromosome Location	10p11.1
Function	ADP binding; ATP binding; actin binding; actin-dependent ATPase activity; calmodulin binding; microfilament motor activity; microfilament motor activity; nucleotide binding; plus-end directed microfilament motor activity; protein kinase activity; protein serine/threonine kinase activity;

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