

Product Information

Recombinant Anti-Human myh14 Antibody

Cat. No.: **MOM-18441**

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

Product Overview

Recombinant Mouse Antibody is specific to Human MYH14, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

The Myh14 gene codes for the heavy chain of non-muscle myosin IIC (NMMHC-IIC). Ablation of NMMHC-IIC in mice results in lethality by E6.5 with defects in cell-cell adhesion and a failure to produce a competent visceral endoderm. Defects in Myh14 are also the cause of non-syndromic sensorineural deafness autosomal dominant type 4 (DFNA4).

Specific Activity

Tested positive against native antigen.

Target

MYH14

Source

Mouse

Species Reactivity

Human

Type

IgG

Expression Host

CHO

Purity

>95.0% as determined by analysis by RP-HPLC.

Applications

Suitable for use in Neut, ELISA, ICC and most other immunological methods.

Storage

Store at -20°C. Avoid multiple freeze/thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name

[MYH14 myosin, heavy chain 14, non-muscle \[Homo sapiens \]](#)

Official Symbol

MYH14

Synonyms

MYH14; myosin, heavy chain 14, non-muscle; DFNA4, myosin, heavy chain 14 , myosin, heavy polypeptide 14; myosin-14; FLJ13881; KIAA2034; MHC16; MYH17; MYH14 variant protein; myosin, heavy polypeptide 14; non-muscle myosin heavy chain IIc; nonmuscle myosin heavy chain II-C; myosin heavy chain, non-muscle IIc; DFNA4; PNMHH; myosin; FP17425; NMHC II-C; NMHC-II-C; FLJ43092; DKFZp667A1311

Gene ID

[79784](#)

mRNA Refseq

[NM_001077186](#)

Protein Refseq

[NP_001070654](#)

MIM

[608568](#)

UniProt ID

Q7Z406

Chromosome Location

19q13.33

Pathway

Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Regulation of actin cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, conserved biosystem; Salmonella infection, organism-specific biosystem; Salmonella infection, conserved biosystem; Sema4D in semaphorin signaling, organism-specific biosystem;

Function

ATP binding; actin filament binding; actin-dependent ATPase activity; calmodulin binding; microfilament motor activity; nucleotide binding;