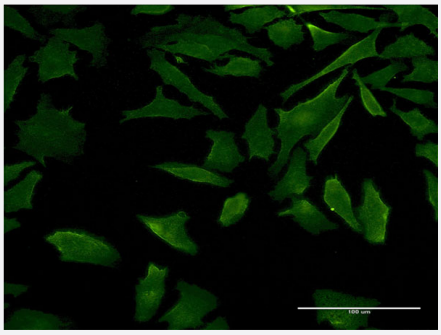
DFNB31 monoclonal antibody (M05), clone 2D12

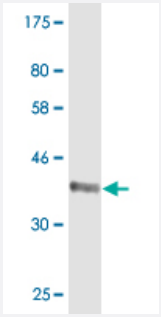
Catalog # H00025861-M05 Size 100 ug

Applications



Immunofluorescence

Immunofluorescence of monoclonal antibody to DFNB31 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant DFNB31.
Immunogen	DFNB31 (NP_056219, 808 a.a. ~ 907 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	GLLEPTSTLVRVKKSAATLGIAIEGGANTRQPLPRIVTIQRGGSAHNCGQLKVGHVILEVNGLTLRGK EHREAARIIAEAFKTKDRDYIDFLVTEFNVML
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (96); Rat (95)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to DFNB31 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — DFNB31

Entrez GeneID	25861
GeneBank Accession#	NM_015404
Protein Accession#	NP_056219
Gene Name	DFNB31
Gene Alias	CIP98, DKFZp434N014, KIAA1526, RP11-9M16.1, USH2D, WHRN, WI
Gene Description	deafness, autosomal recessive 31
Omim ID	607084 607928
Gene Ontology	Hyperlink
Gene Summary	In rat brain, Cip98 interacts with a calmodulin-dependent serine kinase, CASK (MIM 300172), and may be involved in the formation of scaffolding protein complexes that facilitate synaptic transmission in the central nervous system (CNS) (Yap et al., 2003 [PubMed 12641734]). Mutations in this gene, also known as WHRN, cause DFNB31 (MIM 607084).[supplied by OMIM

Other Designations	CASK-interacting protein CIP98|OTTHUMP00000021976|OTTHUMP00000021978|whirlin

Publication Reference

- A single-cell level comparison of human inner ear organoids with the human cochlea and vestibular organs.

  Wouter H van der Valk , Edward S A van Beelen , Matthew R Steinhart , Carl Nist-Lund , Daniel Osorio , John C M J de Groot , Liang Sun , Peter Paul G van Benthem , Karl R Koehler , Heiko Locher.

  Cell Reports 2023 Jun; 42(6):112623.

  Application: IF, Human, Human stereocilia

Disease

- Bipolar Disorder
- Cleft Lip
- Cleft Palate
- Genetic Predisposition to Disease
- Usher Syndromes