SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-MYO5A/Biotin Conjugated antibody

Catalog Number: SL19173R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-MYO5A/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human MYO5A
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: This gene is one of three myosin V heavy-chain genes, belonging to the myosin gene superfamily. Myosin V is a class of actin-based motor proteins involved in cytoplasmic vesicle transport and anchorage, spindle-pole alignment and mRNA translocation. The protein encoded by this gene is abundant in melanocytes and nerve cells. Mutations in this gene cause Griscelli syndrome type-1 (GS1), Griscelli syndrome type-3 (GS3) and neuroectodermal melanolysosomal disease, or Elejalde disease. Multiple alternatively spliced transcript variants encoding different isoforms have been reported, but the full-length nature of some variants has not been determined. [provided by RefSeq, Dec 2008] **Function:** Processive actin-based motor that can move in large steps

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	approximating the 36-nm pseudo-repeat of the actin filament. Involved in melanosome transport. May also be required for some polarization process involved in dendrite formation. **Tissue Specificity:** Detected in melanocytes. DISEASE: Defects in MYO5A are a cause of Griscelli syndrome type 1 (GS1) [MIM:214450]; also known as Griscelli syndrome with primary neurologic impairment. Griscelli syndrome is a rare autosomal recessive disorder that results in pigmentary dilution of the skin and hair, the presence of large clumps of pigment in hair shafts, silvery-gray hair and accumulation of melanosomes in melanocytes. GS1 patients show developmental delay, hypotonia and mental retardation, without apparent immune abnormalities. Defects in MYO5A are a cause of Griscelli syndrome type 3 (GS3) [MIM:609227]. GS3 is characterized by pigmentary dilution of the skin and hair, the presence of large clumps of pigment in hair shafts, silvery-gray hair and accumulation of melanosomes in melanocytes, without other clinical manifestations. Defects in MYO5A are a cause of Elejalde syndrome (ELEJAS) [MIM:256710]; also known as neuroectodermal melanolysosomal disease. Elejalde syndrome is an autosomal recessive condition characterized by skin hypopigmentation, the presence of large clumps of pigment in hair shafts, silvery-gray hair, accumulation of melanosomes in melanocytes and primary neurological abnormalities. Elejalde syndrome may be the same entity as Griscelli syndrome type 1. **Similarity:** Contains 1 dilute domain. Contains 6 IQ domains. Contains 1 myosin head-like domain. **Database links:** **Entrez Gene:** 4644 Human **Entrez Gene:** 17918 Mouse **Entrez Gene:** 594849 Pig **Entrez Gene:** 25017 Rat Omim: 160777 Human **SwissProt:** Q02440 Chicken **SwissProt:** Q9Y4I1 Human **SwissProt:** Q99104 Mouse **SwissProt:** Q9QYF3 Rat **Unigene:** 21213 Human **Unigene:** 596221 Human **Unigene:** 3645 Mouse **Unigene:** 44865 Rat

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