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MESDC2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5086

Product Information

Application	IF, IHC-P, WB
Primary Accession	Q14696
Other Accession	NP_055969.1
Reactivity	Mouse, Rat, Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26077
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	23184
Antigen Region	206-234
Other Names	MESDC2; KIAA0081; MESD; LDLR chaperone MESD; Mesoderm development candidate 2; Mesoderm development protein; Renal carcinoma antigen NY-REN-61
Dilution	IF~~1:10~50 IHC-P~~1:100~500 WB~~1:1000
Target/Specificity	This MESDC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 206-234 amino acids from the C-terminal region of human MESDC2.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MESDC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MESD (HGNC:13520)

Synonyms	KIAA0081, MESDC2, MESDM
Function	Chaperone specifically assisting the folding of beta- propeller/EGF modules within the family of low-density lipoprotein receptors (LDLRs) (PubMed:15014448). Acts as a modulator of the Wnt pathway through chaperoning the coreceptors of the canonical Wnt pathway, LRP5 and LRP6, to the plasma membrane (PubMed:17488095, PubMed:23572575). Essential for specification of embryonic polarity and mesoderm induction. Plays an essential role in neuromuscular junction (NMJ) formation by promoting cell-surface expression of LRP4 (By similarity). May regulate phagocytosis of apoptotic retinal pigment epithelium (RPE) cells (By similarity).
Cellular Location	Endoplasmic reticulum Note=Released from apoptotic cells and shed photoreceptor outer segments. {ECO:0000250|UniProtKB:Q9ERE7}

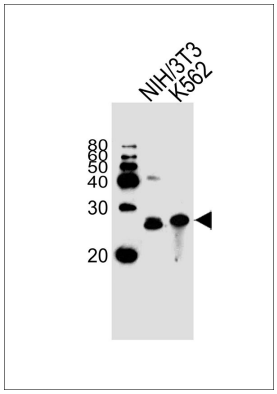
Background

Chaperone specifically assisting the folding of beta-propeller/EGF modules within the family of low-density lipoprotein receptors (LDLRs). Acts as a modulator of the Wnt pathway through chaperoning the coreceptors of the canonical Wnt pathway, LRP5 and LRP6, to the plasma membrane. Essential for specification of embryonic polarity and mesoderm induction.

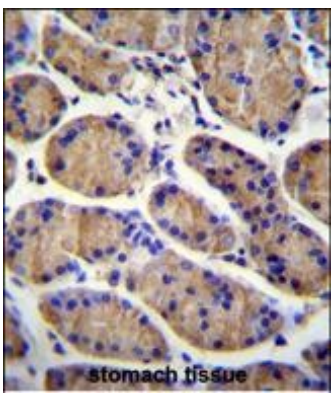
References

Murrills, R.J., et al. J. Cell. Biochem. 108(5):1066-1075(2009)
Li, Y., et al. FEBS Lett. 580(22):5423-5428(2006)
Veltman, I.M., et al. Hum. Mol. Genet. 14(14):1955-1963(2005)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)
Hsieh, J.C., et al. Cell 112(3):355-367(2003)

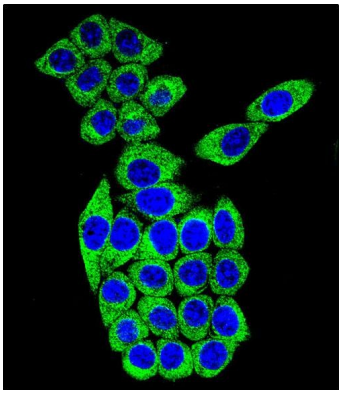
Images



Western blot analysis of lysates from mouse NIH/3T3,K562 cell line (from left to right), using MESDC2 Antibody (C-term)(Cat. #AW5086). AW5086 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



MESDC2 Antibody (C-term)(Cat. #AW5086)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MESDC2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of MESDC2 Antibody (C-term)(Cat#AW5086) with 293 cell followed by Alexa Fluor? 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).