

# MESDC2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11638b

## Product Information

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<b>Application</b>	IHC-P, IF, WB, E
<b>Primary Accession</b>	<a href="#">Q14696</a>
<b>Other Accession</b>	<a href="#">NP_055969.1</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB29835
<b>Calculated MW</b>	26077
<b>Antigen Region</b>	206-234

## Additional Information

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<b>Gene ID</b>	23184
<b>Other Names</b>	LDLR chaperone MESD, Mesoderm development candidate 2, Mesoderm development protein, Renal carcinoma antigen NY-REN-61, MESDC2, KIAA0081, MESD
<b>Target/Specificity</b>	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.
<b>Dilution</b>	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	MESDC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MESD ( <a href="#">HGNC:13520</a> )
<b>Synonyms</b>	KIAA0081, MESDC2, MESDM

<b>Function</b>	Chaperone specifically assisting the folding of beta- propeller/EGF modules within the family of low-density lipoprotein receptors (LDLRs) (PubMed: <a href="#">15014448</a> ). 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: <a href="#">17488095</a> , PubMed: <a href="#">23572575</a> ). 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).
<b>Cellular Location</b>	Endoplasmic reticulum Note=Released from apoptotic cells and shed photoreceptor outer segments. {ECO:0000250   UniProtKB:Q9ERE7}

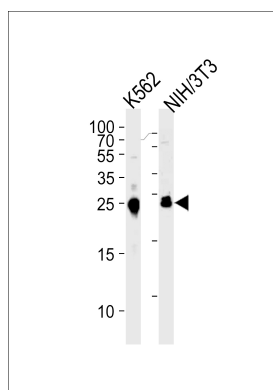
## Background

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.

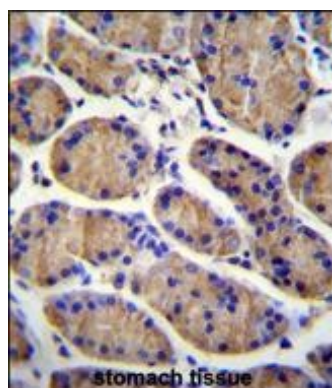
## References

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 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)  
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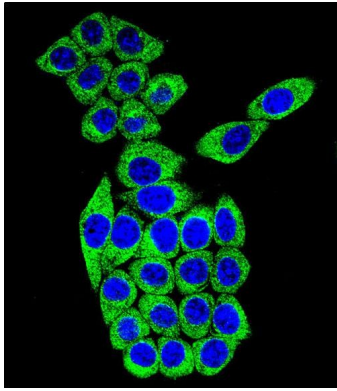
## Images



Western blot analysis of lysates from K562, mouse NIH/3T3 cell line (from left to right), using MESDC2 Antibody (C-term) (Cat. #AP11638b). AP11638b was diluted at 1:1000 at each lane. A goat anti-rabbit(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



MESDC2 Antibody (C-term)(Cat. #AP11638b)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#AP11638b) with 293 cell followed by Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.