

**MESDC2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11638b**

**Specification**

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**MESDC2 Antibody (C-term) - Product Information**

Application	WB, IHC-P, IF,E
Primary Accession	<a href="#">Q14696</a>
Other Accession	<a href="#">NP_055969.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	206-234

**MESDC2 Antibody (C-term) - Additional Information**

**Gene ID** 23184

**Other Names**

LDLR chaperone MESD, Mesoderm development candidate 2, Mesoderm development protein, Renal carcinoma antigen NY-REN-61, MESDC2, KIAA0081, MESD

**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.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50  
IF~~1:10~50  
E~~Use at an assay dependent concentration.

**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.

**MESDC2 Antibody (C-term) - 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**

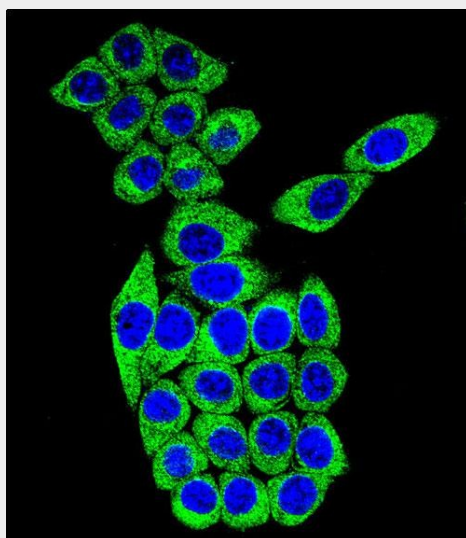
Endoplasmic reticulum Note=Released from apoptotic cells and shed photoreceptor outer segments. {ECO:0000250|UniProtKB:Q9ERE7}

**MESDC2 Antibody (C-term) - Protocols**

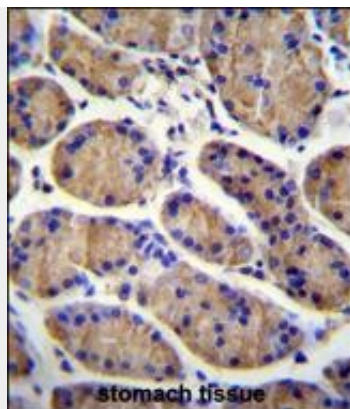
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

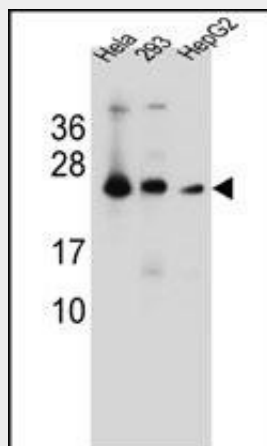
**MESDC2 Antibody (C-term) - Images**



Confocal immunofluorescent analysis of MESDC2 Antibody (C-term) (Cat#AP11638b) with 293 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



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.



MESDC2 Antibody (C-term) (Cat. #AP11638b) western blot analysis in HeLa, 293, HepG2 cell line lysates (35ug/lane). This demonstrates the MESDC2 antibody detected the MESDC2 protein (arrow).

### **MESDC2 Antibody (C-term) - 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.

### **MESDC2 Antibody (C-term) - 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)