



## Rabbit Anti-FHOD1 antibody

SL13158R

<b>Product Name:</b>	FHOD1
<b>Chinese Name:</b>	肢体畸形相关蛋白FHOD1抗体
<b>Alias:</b>	FH1/FH2 domain containing protein; FH1/FH2 domain-containing protein 1; Fhod1; FHOD1_HUMAN; FHOS; FHOS1; Formin homolog overexpressed in spleen 1; Formin homology 2 domain containing 1; Formin homology 2 domain containing protein 1; Formin homology 2 domain-containing protein 1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	126kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human FHOD1:601-700/1164
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The limb deformity (ld) locus influences normal limb development and gives rise to alternative mRNAs that can translate into a family of protein products known as formins. Formins play a crucial role in cytoskeletal reorganization by influencing actin filament assembly. The temporal genetic hierarchy influencing normal limb development can

deregulate and mediate mammalian developmental syndromes. FHOD1 induces the formation of and associates with bundled actin stress fibers in response to the activity of the Rho-ROCK cascade. It influences several cellular activities including cell migration, cytoskeletal arrangement, signal transduction and gene expression.

**Function:**

Required for the assembly of F-actin structures, such as stress fibers. Depends on the Rho-ROCK cascade for its activity. Contributes to the coordination of microtubules with actin fibers and plays a role in cell elongation.

**Subunit:**

Self-associates via the FH2 domain. Binds to F-actin via its N-terminus. Binds to the cytoplasmic domain of CD21 via its C-terminus. Interacts with ROCK1 in a Src-dependent manner.

**Subcellular Location:**

Cytoplasm. Cytoplasm; cytoskeleton. Predominantly cytoplasmic.

**Tissue Specificity:**

Ubiquitous. Highly expressed in spleen.

**Post-translational modifications:**

Phosphorylated by ROCK1.

**Similarity:**

Belongs to the formin homology family.

Contains 1 FH1 (formin homology 1) domain.

Contains 1 FH2 (formin homology 2) domain.

Contains 1 GBD/FH3 (Rho GTPase-binding/formin homology 3) domain.

**SWISS:**

Q9Y613

**Gene ID:**

29109

**Database links:**

[Entrez Gene: 29109](#)Human

[Omic: 606881](#)Human

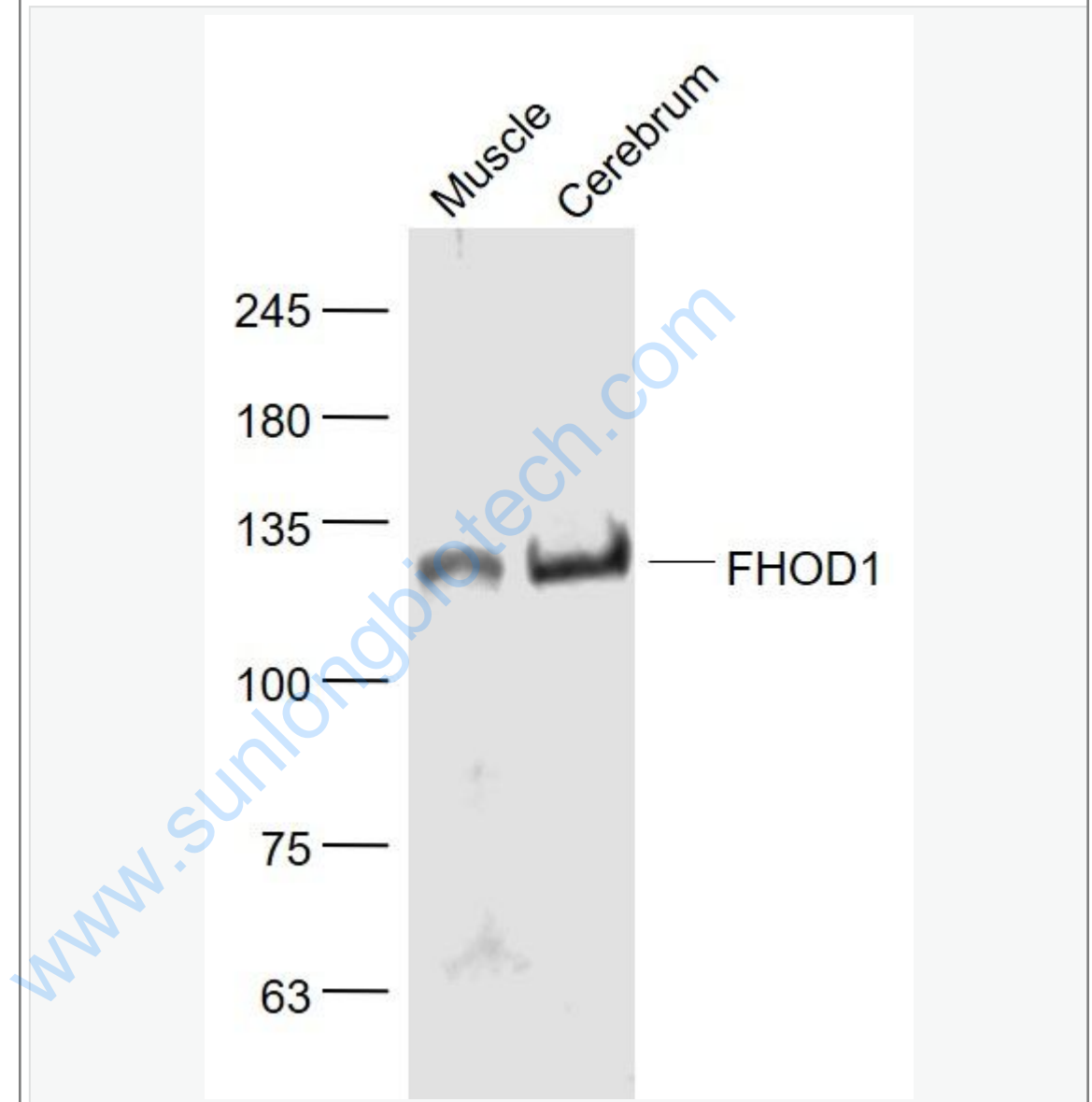
[SwissProt: Q9Y613](#)Human

[Unigene: 95231](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Muscle (Mouse) Lysate at 40 ug

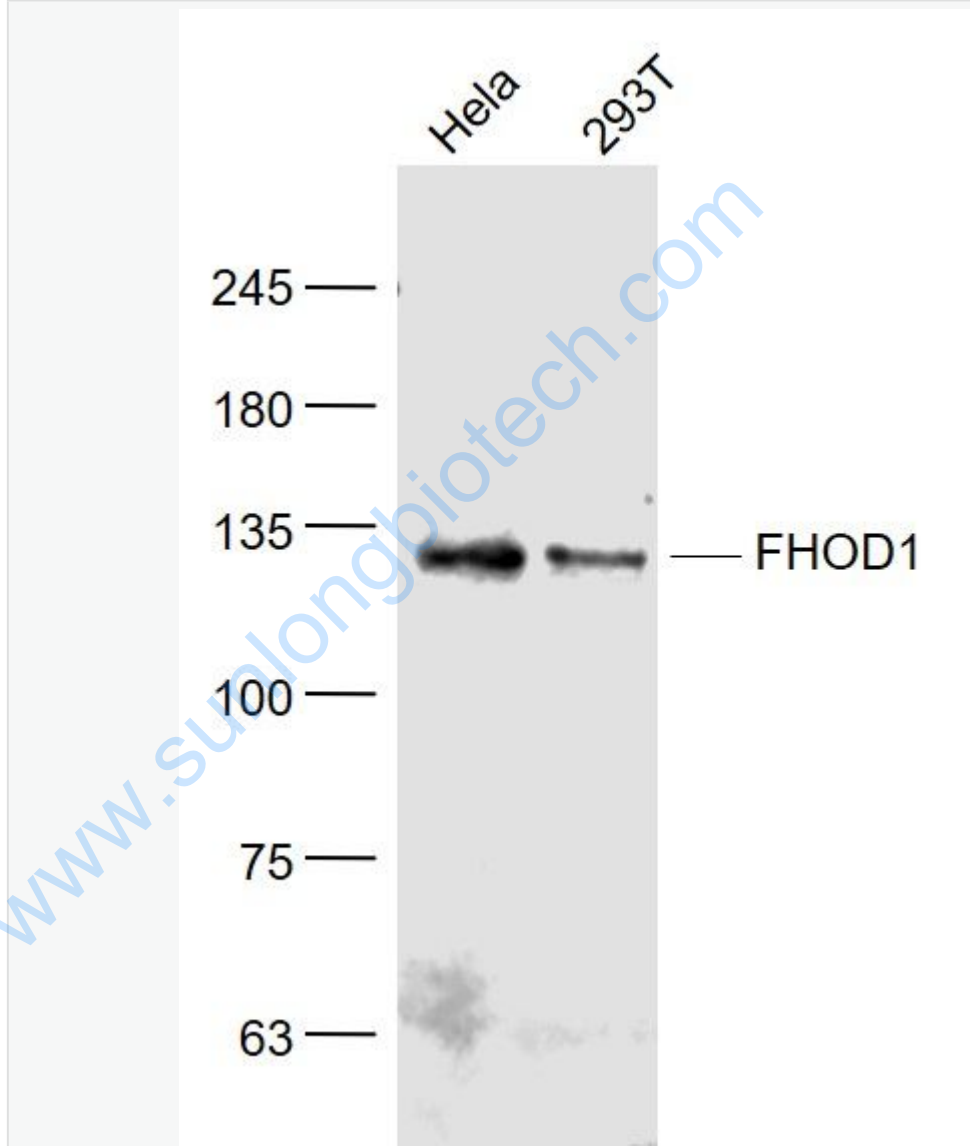
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti- FHOD1 (SL13158R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 126 kD

Observed band size: 126 kD



Sample:

HeLa(Human) Cell Lysate at 30 ug

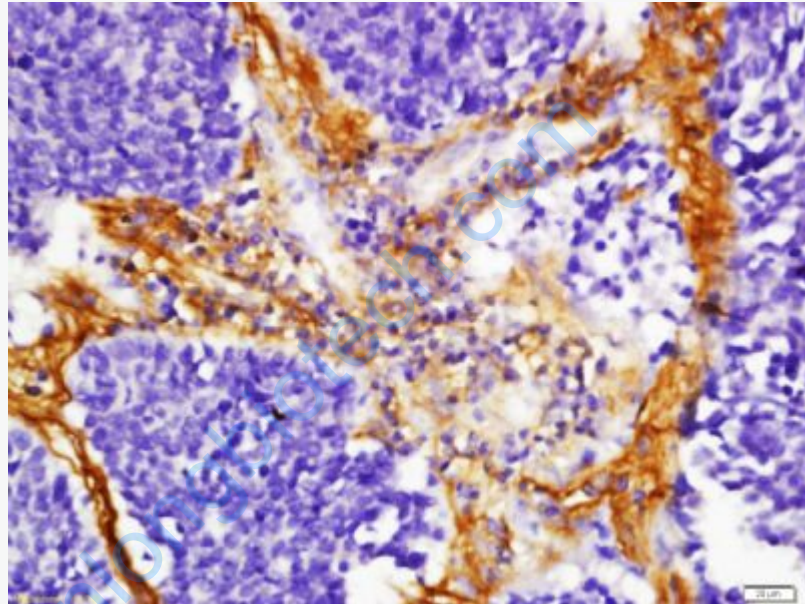
293T(Human) Cell Lysate at 30 ug

Primary: Anti- FHOD1 (SL13158R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 126 kD

Observed band size: 126 kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-FHOD1 Polyclonal Antibody, Unconjugated(SL13158R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining