



Rabbit Anti-TRIOBP antibody

SL17152R

Product Name:	TRIOBP
Chinese Name:	TRIOBP蛋白抗体
Alias:	DFNB28; KIAA1662; Protein TARA; TARA; TARA_HUMAN; Tara like protein; TRIO and F actin binding protein; Trio and filamentous actin binding protein; Trio associated repeat on actin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=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.
Molecular weight:	261kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TRIOBP:2251-2365/2365
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a protein with an N-terminal pleckstrin homology domain and a C-terminal coiled-coil region. The protein interacts with trio, which is involved with neural tissue development and controlling actin cytoskeleton organization, cell motility and cell growth. The protein also associates with F-actin and stabilizes F-actin structures. Mutations in this gene have been associated with a form of autosomal recessive

nonsyndromic deafness. Multiple alternatively spliced transcript variants that would encode different isoforms have been found for this gene, however some transcripts may be subject to nonsense-mediated decay (NMD). [provided by RefSeq, Nov 2008]

Function:

TRIOBP is a protein that interacts with trio, which is involved with neural tissue development and controlling actin cytoskeleton organization, cell motility and cell growth. This trio binding protein also associates with F actin and stabilizes F actin structures.

Subunit:

Binds to TRIO and F-actin. May also interact with myosin II. Interacts with HECTD3.

Subcellular Location:

Nucleus. Cytoplasm; cytoskeleton. Note: Localized to F-actin in a periodic pattern.

Tissue Specificity:

Widely expressed. Highly expressed in heart and placenta. Isoform 3 is expressed in fetal brain, retina and cochlea but is not detectable in the other tissues.

Post-translational modifications:

Ubiquitinated by HECTD3, leading to its degradation by the proteasome.

Isoform 1: Phosphorylation at Thr-457 by PLK1 ensures mitotic progression and is essential for accurate chromosome segregation.

DISEASE:

Deafness, autosomal recessive, 28 (DFNB28) [MIM:609823]: A form of non-syndromic sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Contains 1 PH domain.

SWISS:

Q9H2D6

Gene ID:

11078

Database links:

[Entrez Gene: 11078](#) Human

[Entrez Gene: 511680](#) Cow

[Entrez Gene: 110253](#) Mouse

[Entrez Gene: 362956](#) Rat

[Omim: 609761](#) Human

[SwissProt: Q9H2D6](#) Human

[SwissProt: Q99KW3](#) Mouse

[Unigene: 533030](#) Human

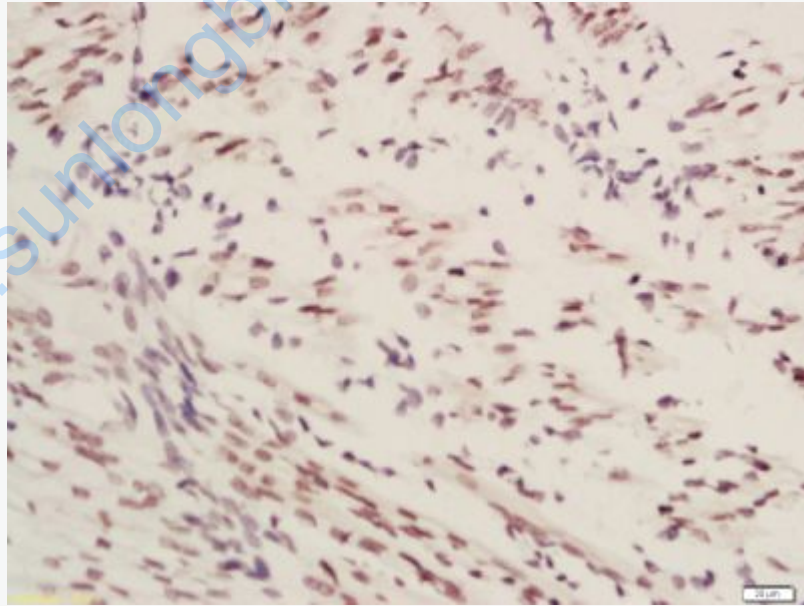
[Unigene: 123714](#) Mouse

[Unigene: 119950](#) Rat

Important Note:

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

Picture:

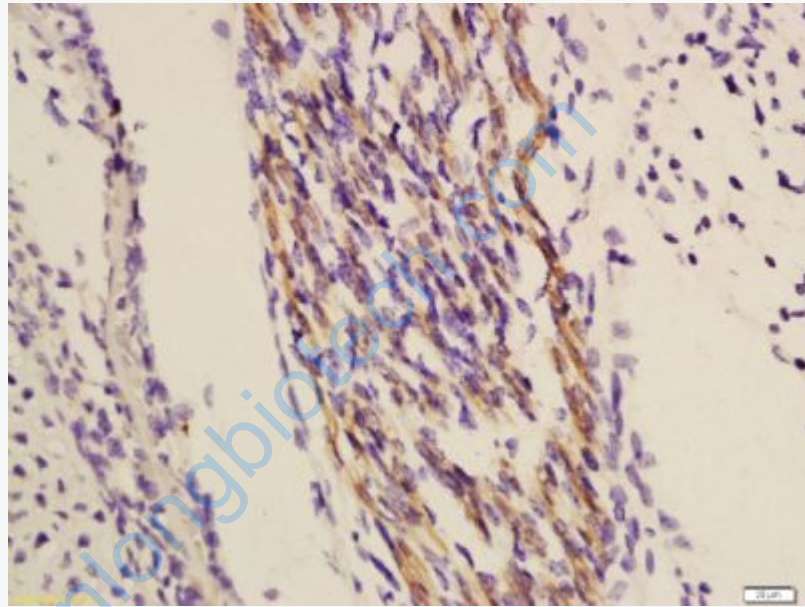


Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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-TRIOBP Polyclonal Antibody, Unconjugated(SL17152R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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