



Rabbit Anti-Lefty/TGF β 4 antibody

SL11236R

Product Name:	Lefty/TGF β 4
Chinese Name:	转化生长因子 β 4抗体
Alias:	Protein lefty-1; AI450052; Eba1; Left right determination factor 1; left right determination factor; Left right determination factor B; left-right determination factor; LEFT-RIGHT DETERMINATION FACTOR 1; LEFTY1; left-right determination, factor B; LEFT-RIGHT DETERMINATION, FACTOR B; LEFTY B; LEFTB; LEFTY 1; Lefty; lefty-1; LEFTY1; LEFTY1, MOUSE, HOMOLOG OF antibody; LEFTYB; Protein lefty-B; RGD1561867; Stimulated by retinoic acid gene 3 protein; STRA3; TGF beta 4; TGF-beta-4; Tgfb4; Transforming growth factor beta 4; Transforming growth factor beta-4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
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:	32kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TGF beta 4:51-150/366
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

During vertebrate embryogenesis, a left right axis is established. Secreted growth factors of the TGF beta family, including gene products derived from nodal, lefty 1 and lefty 2, play crucial roles in establishing left right asymmetries. TGF beta (Transforming growth factor beta) is a pleiotropic cytokine that regulates growth and differentiation of diverse types of cells. TGF beta actions are directed by ligand induced activation of TGF beta receptors. Complexes formed move into the nucleus, where they act as components of a transcriptional complex. Lefty, a novel member of the TGF beta superfamily, inhibits TGF beta signaling. Lefty acts to inhibit phosphorylation of Smad2 following activation of the TGF beta receptor. Lefty also inhibits events downstream from R Smad phosphorylation. Lefty provides a repressed state of TGF beta responsive genes. The Lefty family is comprised of Lefty 1 and Lefty 2 in mouse, and Lefty A and Lefty B in humans. Members of the TGF beta superfamily require processing for their activation. Cleavage is therefore an essential step for Lefty activation. Lefty is synthesized as a large inactive precursor (41 Kda) that must be endoproteolytically processed to release the bioactive polypeptide (28 kDa and 34 kDa forms). The 28kDa form induces MAPK activity.

Function:

Required for left-right axis determination as a regulator of LEFTY2 and NODAL.

Subcellular Location:

Secreted

Similarity:

Belongs to the TGF-beta family.

SWISS:

O75610

Gene ID:

10637

Database links:

[Entrez Gene: 10637](#) Human

[Omim: 603037](#) Human

[SwissProt: O75610](#) Human

[Unigene: 656214](#) Human

Important Note:

Product Detail:

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