

Datasheet for ABIN1386468
anti-LEFTY1 antibody (AA 51-150)



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Overview

Quantity:	100 µL
Target:	LEFTY1
Binding Specificity:	AA 51-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LEFTY1 antibody is un-conjugated
Application:	ELISA, Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Lefty
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat
Purification:	Purified by Protein A.

Target Details

Target:	LEFTY1
Alternative Name:	Lefty (LEFTY1 Products)

Target Details

Background:	Synonyms: Protein lefty-1, AI450052, Ebaf, 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. Background: 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 28 kDa form induces MAPK activity.
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Gene ID:	10637
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Application Details

Application Notes:	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months