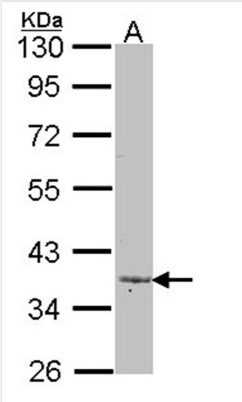
Lefty-A (LEFTY2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Lefty-A (LEFTY2), Polyclonal Antibody
Full Product Name	Lefty-A antibody
Product Gene Name	anti-LEFTY2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	Purified by antigen-affinity chromatography.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	37,093 Da
OMIM	601877
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 25 and 351 of Lefty -A
Target Name	Lefty -A
Product Categories/Family for anti-LEFTY2 antibody	Total protein Ab
Applications Tested/Suitable for anti-LEFTY2 antibody	Western Blot (WB)
Application Notes for anti-LEFTY2 antibody	Western blotting: 1:500-1:3000
Related Product Information for anti-LEFTY2 antibody	This gene encodes a member of the TGF-beta family of proteins. The encoded protein is secreted and plays a role in left-right asymmetry determination of organ systems during development. The protein may also play a role in endometrial bleeding. Mutations in this gene have been associated with left-right axis malformations, particularly in the heart and lungs. Some types of infertility have been associated with dysregulated expression of this gene in the endometrium. Alternative processing of this protein can yield three different products. This gene is closely linked to both a related family member and a related pseudogene. [provided by RefSeq]
Other Notes	Small volumes of anti-LEFTY2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LEFTY2 purchase	MBS9407988 is an antibody targeting LEFTY2. Also known as Lefty-A antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-LEFTY2 antibody
Sample (30 ug of whole cell lysate) A: A431 10% SDS PAGE Primary antibody diluted at 1: 1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LEFTY2. It may not necessarily be applicable to this product.

NCBI GI #	27436881
NCBI GeneID	7044
NCBI Accession #	NP_003231
UniProt Secondary Accession #	O75611; Q5TE89; Q8NBQ9; B3KNH4; B4E332; E9PDM4
UniProt Related Accession #	O00292
GenBank Nucleotide #	NM_003240.3
NCBI Official Full Name	left-right determination factor 2 isoform 1 preproprotein
NCBI Official Synonym Full Names	left-right determination factor 2
NCBI Official Symbol	LEFTY2
NCBI Official Synonym Symbols	EBAF; LEFTA; TGFB4; LEFTYA
UniProt Protein Name	Left-right determination factor 2
UniProt Synonym Protein Names	Endometrial bleeding-associated factor; Left-right determination factor A; Protein lefty-2; Protein lefty-A; Transforming growth factor beta-4; TGF-beta-4
Protein Family	Left-right determination factor
UniProt Gene Name	LEFTY2
UniProt Synonym Gene Names	EBAF; LEFTA; LEFTYA; TGFB4; TGF-beta-4
UniProt Entry Name	LFTY2_HUMAN
NCBI Protein Information	left-right determination factor 2
NCBI Summary for LEFTY2	This gene encodes a member of the TGF-beta family of proteins. The encoded protein is secreted and plays a role in left-right asymmetry determination of organ systems during development. The protein may also play a role in endometrial bleeding. Mutations in this gene have been associated with left-right axis malformations, particularly in the heart and lungs. Some types of infertility have been associated with dysregulated expression of this gene in the endometrium. Alternative processing of this protein can yield three different products. This gene is closely linked to both a related family member and a related pseudogene. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2010]

UniProt Comments for LEFTY2	LEFTY2: Required for left-right (L-R) asymmetry determination of organ systems in mammals. May play a role in endometrial bleeding. Defects in LEFTY2 are the cause of left-right axis malformations (LRAM). The defect includes left pulmonary isomerism, with cardiac anomalies characterized by complete atrioventricular canal defect and hypoplastic left ventricle, and interrupted inferior vena cava. Belongs to the TGF-beta family. Protein type: Cytokine; Secreted; Ligand, receptor tyrosine kinase; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q42.1 Cellular Component: extracellular matrix; extracellular space; extracellular region Molecular Function: growth factor activity; cytokine activity; transforming growth factor beta receptor binding Biological Process: regulation of apoptosis; platelet activation; platelet degranulation; transforming growth factor beta receptor signaling pathway; multicellular organismal development; regulation of MAPKKK cascade; cell growth; blood coagulation; cell development
Research Articles on LEFTY2	**1.** Lefty A may account for the tumor suppressive activity of human adult stem cells.
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