Mouse Left-right determination factor 2 (LEFTY2) ELISA Kit

Catalog No: #EK10121

Package Size: #EK10121-1 48T #EK10121-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse Left-right determination factor 2 (LEFTY2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	EBAF; LEFTA; LEFTYA; MGC46222; TGFB4; endometrial bleeding associated factor|endometrial bleeding associated factor (left-right determination; factor A; transforming growth factor beta superfamily)|
Accession No.	P57785
Uniprot	P57785
GeneID	320202;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.5 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LEFTY2 in samples. An antibody specific for LEFTY2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLEFTY2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LEFTY2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LEFTY2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Lefty proteins are signaling ligands that act in opposition to the NODAL protein. During vertebrate development they regulate the degree of left-right asymmetry by controlling the spatiotemporal influence of the NODAL protein.It is involved in embryogenesis and left-right patterning. There are many differences between the left and right sides, including heart and lung positioning. Mutations in these genes cause incorrect positioning of these organs (e.g., situs inversus). Lefty1 in the ventral midline prevents the Cerebrus (paracrine factor or "Caronte") signal from passing to the right side of the embryo.The role of Lefty1 is to restrict the expression of Lefty2 and Nodal to the left side, and that Lefty2 or Nodal encode a signal for 'leftness.' Lefty2 serves as a feedback inhibitor to restrict the range of nodal signaling during establishment of the left-right axis.

Note: This product is for in vitro research use only