

Human Left-right determination factor 1 (LEFTY1) ELISA Kit



Catalog No: #EK10123

Orders: order@signalwayantibody.com

Package Size: #EK10123-1 48T #EK10123-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Left-right determination factor 1 (LEFTY1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LEFTB; LEFTYB; left-right determination; factor B
Accession No.	O75610
Uniprot	O75610
GeneID	10637;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.31 ng/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 LEFTY1 in samples. An antibody specific for LEFTY1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLEFTY1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LEFTY1 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 LEFTY1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Vertebrates exhibit numerous left-right (L-R) asymmetries, such as the position of the heart and spleen on the left side. L-R polarity is determined early during development, around the presomite stage in mammals. Several genes have been shown to be expressed asymmetrically relative to the L-R axis. Meno et al. (1996, 1997) identified 2 transforming growth factor-beta-related genes, Lefty1 and Lefty2, that are expressed on the left side of developing mouse embryos.Kosaki et al. (1999) characterized 2 homologs of the murine Lefty1 and Lefty2 genes, which they designated LEFTY B and LEFTY A, respectively. Both genes encode proteins with 366 amino acids. The deduced amino acid sequences of LEFTY B and LEFTY A are more similar to each other than to mouse Lefty1 or Lefty2.

Note: This product is for in vitro research use only