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## Datasheet for ABIN7318717 **LEFTY2 Protein (His tag)**

### Overview

Quantity:	50 µg
Target:	LEFTY2
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LEFTY2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human LEFTY2 Protein (His Tag)
Sequence:	Phe78-Pro366
Characteristics:	Recombinant Human Left-right Determination Factor 2 is produced by our Mammalian expression system and the target gene encoding Phe78-Pro366 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	LEFTY2
Alternative Name:	LEFTY2 ( <a href="#">LEFTY2 Products</a> )
Background:	Background: Left-right determination factor 2(LEFTY2) is a secreted protein which belongs to the TGF-beta family. Lefty was first identified in a screen for undifferentiated cell-specific

## Target Details

cDNAs from the P19 mouse embryonal carcinoma cells. Its mRNA expression on the left side of the developing embryo earned the name "Lefty". The human orthologue was initially identified as Ebaf, Endometrial bleeding associated factor. Lefty contains the six cysteine residues that are conserved among TGF- $\beta$  related proteins and that are necessary to form the cysteine knot structure. Its function in patterning left-right asymmetry of the developing organ systems such as the heart and lung is consistent in all vertebrate species examined. Lefty acts as an antagonist to Nodal signaling, potentially by competing for binding to a common receptor. It may play a role in endometrial bleeding.

Synonym: Left-right determination factor 2, Endometrial bleeding-associated factor, Left-right determination factor A, Protein lefty-2, Protein lefty-A, Transforming growth factor beta-4, TGF-beta-4, LEFTY2, EBAF, LEFTA, LEFTYA, TGFB4

Molecular Weight:	39.1 kDa
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UniProt:	<a href="#">O00292</a>
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## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.
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Storage:	4 °C, -20 °C, -80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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