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LEFTY2 Recombinant Monoclonal Antibody

| Product Code | CSB-RA171603A0HU |
|---------------------|---|
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | O00292 |
| Immunogen | A synthesized peptide derived from human LEFTY2 |
| Species Reactivity | Human |
| Tested Applications | ELISA, WB; Recommended dilution: WB:1:500-1:2000 |
| Relevance | Required for left-right (L-R) asymmetry determination of organ systems in mammals. May play a role in endometrial bleeding. |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| Clonality | Monoclonal |
| Product Type | Recombinant Antibody |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | 0 |
| Gene Names | LEFTY2 |
| Clone No. | 10G2 |

Image



Western Blot Positive WB detected in: Ntera-2 whole cell lysate, Hela whole cell lysate All lanes: LEFTY2 antibody at 1:1000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 41, 38 kDa Observed band size: 36-45 kDa

Description

The process of creating the LEFTY2 recombinant monoclonal antibody involves multiple stages. First, the LEFTY2 monoclonal antibody is harvested and its gene sequence is determined. Next, a vector carrying the LEFTY2 monoclonal antibody gene is constructed and transfected into a host cell line for culture.

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During the production of the LEFTY2 monoclonal antibody, a synthesized peptide from human LEFTY2 is used as the immunogen. Once produced, the LEFTY2 recombinant monoclonal antibody is purified using affinity chromatography. Finally, the specificity of the LEFTY2 recombinant monoclonal antibody is evaluated through ELISA and WB applications.

LEFTY2 protein is a secreted protein that plays a key role in embryonic development, specifically in the determination of left-right asymmetry. It is a member of the transforming growth factor-beta (TGF- β) superfamily and is expressed in the left lateral plate mesoderm during early development. LEFTY2 is involved in the regulation of nodal signaling, which is essential for the establishment of left-right asymmetry. It acts as an antagonist to nodal signaling by binding to nodal proteins and inhibiting their activity, thereby promoting left-sidedness. Additionally, LEFTY2 has been shown to have anti-tumor effects in certain cancers.