



20150116ML

Anti-Mouse Lefty-1 (#8B65)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M262
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with purified mouse recombinant protein of Lefty-1. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

Target Background

Synonyms (Target):	Lefty1; Eba1; Leftb; Stra3; Tgfb4; lefty; lefty-1; AI450052
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Lefty proteins are novel TGF-beta ligands that function as antagonists of Nodal signaling. The expression of Lefty proteins on the left side of the developing mouse embryo earned this protein family its name. Two genes exist in mouse (Lefty-1 and Lefty-2) and two in humans (Lefty-A and Lefty-B). By amino acid sequence, human Lefty-A and Lefty-B are more similar to each other (96%) than to either Lefty-1 or Lefty-2 in the mouse (81-82%). The Leftys contains some of the features of the cysteine-knot structure conserved among TGF-beta-related proteins, but also some structural differences. Specifically, they lack the alpha-helical segment important for ligand dimerization as well as the cysteine residue involved in stabilization of dimers.

Database References Target

Protein RefSeq:	NP_034224.1
Uniprot ID:	Q64280
mRNA RefSeq:	NM_010094.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#8B65)
Isotype	IgG2
Purification	Protein A/G chromatography
Antigen	Recombinant mouse Lefty-1
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects mouse Lefty-1- in Western blotting.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

WB: 1:500-1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!