



20150116ML

Anti-Mouse Frizzled-7 (#15B7)

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

Cat.-no.:	103-M388
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 mouse recombinant protein of Frizzled 7.

Target Background

Synonyms (Target):	Fzd7; Fz7
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The Wnt genes encode a large family of glycoproteins that are essential in development and tissue maintenance. Members of the Frizzled family of proteins serve as receptors for the Wnt signaling pathway. The predicted structure of Frizzled proteins is similar among all family members, containing a divergent N-terminal signal peptide, a highly conserved extracellular cysteine-rich domain (CRD), a variable length linker region, a seven-pass transmembrane region, and a variable length C-terminal cytoplasmic domain. The CRD, which comprises the Wnt binding site, spans about 130 amino acid residues and contains ten invariant cysteine residues. Mouse Frizzled-7 contains 572 amino acid residues and shares 99% identity with the human orthologue in the CRD. Frizzled7 mRNA has been detected in relatively large amounts in adult skeletal muscle, placenta and heart, and fetal kidney and lung. Several Frizzled-dependent signaling pathways exist. Their activation depends on the Wnt ligand and the cell context. Frizzled-7 can activate canonical Wnt/ β Catenin signaling, as well as a noncanonical pathway involved in tissue morphogenesis.

Database References Target

Protein RefSeq:	NP_032083.3
Uniprot ID:	Q61090
mRNA RefSeq:	NM_008057.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#15B7)
Isotype	IgG1
Purification	Protein G/A chromatography
Antigen	recombinant mouse protein Frizzled 7
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 specifically mouse Frizzled 7 with WB

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:**WB:** 1:500-2000

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