FAT1 (FAT atypical cadherin 1) Antibody

Mouse Monoclonal Antibody [Clone FAT1-3D7/1]

Catalog No	Format	Size
2195-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2195-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2195-MSM1-P1BX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

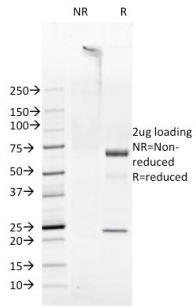
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	FAT1-3D7/1
Gene Name	FAT1
Immunogen	Cytoplasmic domain of Drosophila Fat protein.
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgM / Kappa
Mol. Weight of Antigen	500kDa
Cellular Localization	Cell membrane, Nucleus
Species Reactivity	Drosophila melanogaster
Positive Control	Wild type imaginal discs from third instar Drosophila larvae.

**Optimal dilution for a specific application should be determined.*

Product Images for FAT1 (FAT atypical cadherin 1) Antibody



SDS-PAGE Analysis of Purified FAT Mouse Monoclonal Antibody (FAT1-3D7/1).
Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

The FAT proteins are members of the Cadherin superfamily homologous to the Drosophila Fat protein that functions as a positive regulator of planar cell polarity in the Drosophila wing. FAT1 is an unusual cadherin that controls cell growth and planar polarity while acting as a tumor suppressor. FAT1 is a proximal element of a signaling pathway that determines both cellular polarity in the plane of the monolayer and directed actin-dependent cell motility. FAT1 is localized at the leading edge of lamellipodia, filopodia and microspike tips where it directly interacts with Ena/VASP proteins to regulate the actin polymerization complex. When targeted to mitochondrial outer leaflets, the cytoplasmic domain of FAT1 recruits components of the actin polymerization machinery sufficient to induce ectopic actin polymerization. FAT1 expression in vascular smooth muscle cells (VSMCs) increases significantly after arterial injury or growth factor stimulation, implicating FAT1 in the control of VSMC functions central to vascular remodeling by facilitating migration and limiting proliferation. FAT1 is also involved in psychic disorders, and its action may be of patho-physiological importance.

Supplied As

200ug/ml of Ab purified by Protein L. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty