Datasheet for ABIN7653925

anti-FAT1 antibody (Cytoplasmic Domain)

Go to Product page

Overview

Quantity:	100 µL
Target:	FAT1
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Drosophila melanogaster
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FAT1 antibody is un-conjugated
Application:	Please inquire

Product Details

Purpose:	FAT1 (FAT atypical cadherin 1)(FAT1-3D7/1)
Immunogen:	Cytoplasmic domain of Drosophila Fat protein.
Clone:	FAT1-3D7-1
Isotype:	IgM, kappa
Characteristics:	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

Product Details

	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 psychiatric disorders, and its action may be of pathophysiological importance. This antibody is available purified, with BSA and azide (0.2 mg/mL) or purified, BSA- and azide-free (1 mg/mL).

Target Details

Target:	FAT1
Alternative Name:	FAT1
Background:	Synonyms: Cadherin family member 7 precursor (CDHF7), Cadherin ME5, Cadherin related tumor suppressor homolog precursor (FAT protein homolog), FAT tumor suppressor homolog 1, hFat 1, Homolog of Drosophila tumor suppressor FAT precursor, nuclear form, Protein fat homolog, Protocadherin Fat 1 Gene Symbol: FAT1
Molecular Weight:	500 kDa
Gene ID:	2195
UniProt:	Q14517

Application Details

Application Notes:	For coating for ELISA, order Ab without BSA. Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user. Recommended starting concentrations for titration are 1-2 µg/mL for most applications, or 1 µg/million cells/100 µLfor flow cytometry
Comment:	Positive Control: Wild type imaginal discs from third instar Drosophila larvae.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 mg/mL

Handling

Buffer:	PBS, 0.05 % BSA, 0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months