# antibodies -online.com





## anti-FAT1 antibody (Cytoplasmic Domain)



Image



#### Overview

Alternative Name:

Quantity:	100 μg
Target:	FAT1
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Drosophila melanogaster
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FAT1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Coating (Coat)
Product Details	
Immunogen:	Cytoplasmic domain of Drosophila Fat protein.
Clone:	FAT1-3D7-1
Isotype:	IgM kappa
Cross-Reactivity (Details):	Expected to cross-react with Chimpanzee. Rat (92 % . 85 % identity with immunogen.
	respectively) due to sequence homology.
Purification:	Purified by Protein A/G
Target Details	
Target:	FAT1

FAT1 (FAT1 Products)

## Target Details

Storage Comment:

Background:	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.
Molecular Weight:	500kDa
Gene ID:	2195
UniProt:	Q14517
Application Details	
Application Notes:	Positive Control: Wild type imaginal discs from third instar Drosophila larvae.
	Known Application: ELISA (For coating, order antibody without BSA), Western Blot (0.5-1.0 $\upmu$
	g/mL), Immunofluorescence (0.5-1 $\mu$ g/mL), Optimal dilution for a specific application should be
	determined.
Restrictions:	For Research Use only
Handling	
Concentration:	200 μg/mL
Buffer:	10 mM PBS with 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,-80 °C

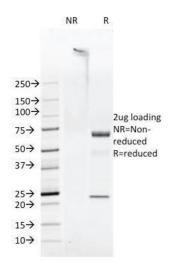
Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date:

24 months

## **Images**



## **SDS-PAGE**

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