

Mouse Protocadherin FAT2 Monoclonal Antibody | anti-FAT2 antibody

Protocadherin FAT2 (FAT Atypical Cadherin 2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62975	Mouse	Human. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Protocadherin FAT2; Monoclonal Antibody; Protocadherin FAT2 (FAT Atypical Cadherin 2); FAT tumor suppressor homolog 2 (HFAT2); cadherin family member 8 (CDHF8); cadherin-related family member 9 (CDHR9); multiple EGF-like domains protein 1; multiple epidermal growth factor-like domains 1 (MEGF1); multiple epidermal growth factor-like domains protein 1; protocadherin FAT2.; anti-FAT2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	8C5
Specificity	Recognizes a protein of 480kDa, which is identified as FAT2. The cadherins represent a family of Ca ²⁺ -dependent adhesion molecules that function to mediate cell-to-cell binding that is critical for the maintenance of structure and morphogenesis. Cadherins each contain a large extracellular domain at the N-terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. The relatively short C-terminal intracellular domain interacts with a variety of cytoplasmic proteins, including beta-catenin, to regulate cadherin function. The cadherin superfamily includes cadherins, protocadherins, desmogleins and desmocollins. FAT2 (FAT tumor suppressor homolog 2) is a single-pass type I membrane protein that belongs to the protocadherin subfamily of cadherins. FAT2 contains one Laminin G-like domain, two EGF-like domains and 32 cadherin domains and is believed to function as a cell adhesion molecule, controlling cell proliferation and playing an important role in cerebellum development.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	4349
Applicable Applications for anti-FAT2 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Purified recombinant human FAT2 fusion protein
Cellular Localization	Cell Surface
Hu-chromosome Location	5q33.1
Positive Control	Esophagus, Cervix, Uterus, Tonsil or Cerebellum.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Bladder Carcinoma stained with Protocadherin FAT2 Monoclonal Antibody (8C5).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Cervical Carcinoma stained with Protocadherin FAT2 Monoclonal Antibody (8C5).

ADDITIONAL INFORMATION

References	Sano, K., et al. 1993. Protocadherins: a large family of cadherin-related molecules in central nervous system. EMBO J. 12: 2249-2256. Suzuki, S.T. 2000. Recent progress in protocadherin research. Exp. Cell Res. 261: 13-18.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13787217
NCBI GeneID	2196
NCBI Accession #	NP_001438.1
NCBI GenBank Nucleotide #	NM_001447.2
UniProt Accession #	Q9NYQ8; O75091; Q9NSR7
Molecular Weight	480kDa
NCBI Official Full Name	protocadherin Fat 2
NCBI Official Synonym Full Names	FAT atypical cadherin 2
NCBI Official Symbol	FAT2
NCBI Official Synonym Symbols	CDHF8; CDHR9; HFAT2; MEGF1; SCA45
NCBI Protein Information	protocadherin Fat 2
UniProt Protein Name	Protocadherin Fat 2
UniProt Gene Name	FAT2
UniProt Synonym Gene Names	CDHF8; KIAA0811; MEGF1; hFat2; Multiple EGF-like domains protein 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.