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### 36-2277: Anti-Protocadherin FAT2 (FAT Atypical Cadherin 2) Monoclonal Antibody(Clone: 8C5)

Clonality :	Monoclonal		
Clone Name :	8C5		
Application :	FACS,IF,IHC		
Reactivity :	Human		
Gene :	FAT2		
Gene ID :	2196		
Uniprot ID :	Q9NYQ8		
Alternative Name :	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.		
Isotype :	Mouse IgG1, kappa		
Immunogen Information : Purified recombinant human FAT2 fusion protein.			

#### Description

Recognizes a protein of 480kDa, which is identified as FAT2. The cadherins represent a family of Ca2+-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 thoµght to be responsible for binding specificity. The relatively short C-terminal intracellular domain interacts with a variety of cytoplasmic proteins, including -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.

#### **Product Info**

Amount :	20 μg / 100 μg
Content :	200 $\mu$ g/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.
Storage condition :	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.

### **Application Note**

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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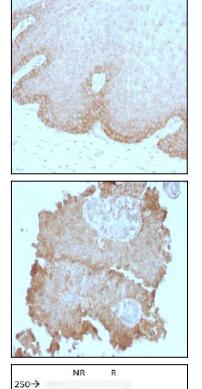


Fig. 1: Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with Protocadherin FAT2 Monoclonal Antibody (8C5).

Fig. 2: Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Protocadherin FAT2 Monoclonal Antibody (8C5).

150→	-		
100→			
75→	-	2ug loadin	
50→		NR=Non- reduced	Fig. 3: SDS-PAGE Analyse Confirmation of Integrit
37→		R=reduced	-
25→			
20→			
15→			
10→			

Fig. 3: SDS-PAGE Analysis Purified Protocadherin FAT2 Monoclonal Antibody (8C5). Confirmation of Integrity and Purity of Antibody.