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PGGT1B Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PGGT1B.
Catalog # AT3281a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P53609
Other Accession	NM_005023
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5E5
Calculated MW	42368

Additional Information

Gene ID	5229
Other Names	Geranylgeranyl transferase type-1 subunit beta, Geranylgeranyl transferase type I subunit beta, GGTase-I-beta, Type I protein geranyl-geranyltransferase subunit beta, PGGT1B
Target/Specificity	PGGT1B (NP_005014, 1 a.a. ~ 105 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PGGT1B Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

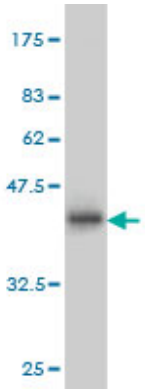
Background

Protein geranylgeranyltransferase type I (GGTase-I) transfers a geranylgeranyl group to the cysteine residue of candidate proteins containing a C-terminal CAAX motif in which 'A' is an aliphatic amino acid and 'X' is leucine (summarized by Zhang et al., 1994 [PubMed 8106351]). The enzyme is composed of a 48-kD alpha subunit (FNTA; MIM 134635) and a 43-kD beta subunit, encoded by the PGGT1B gene. The FNTA gene encodes the alpha subunit for both GGTase-I and the related enzyme farnesyltransferase.

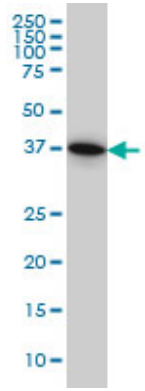
References

1.Genetic studies on the functional relevance of the protein prenyltransferases in skin keratinocytes.Lee R, Chang SY, Trinh H, Tu Y, White AC, Davies BS, Bergo MO, Fong LG, Lowry WE, Young SG.Hum Mol Genet. 2010 Feb 11. [Epub ahead of print]

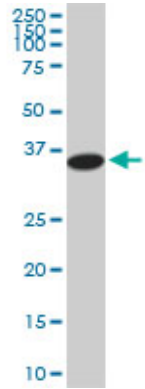
Images



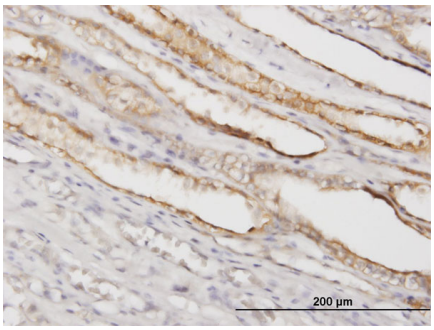
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.29 KDa) .



PGGT1B monoclonal antibody (M02), clone 5E4 Western Blot analysis of PGGT1B expression in HeLa ((Cat # AT3281a)

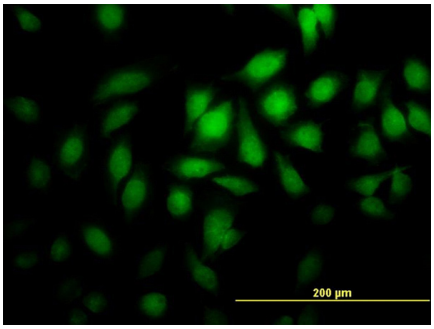


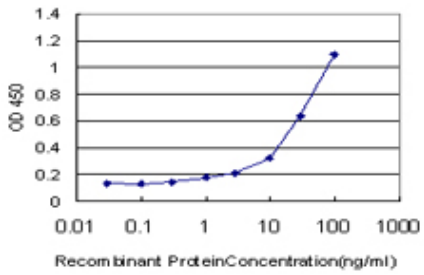
PGGT1B monoclonal antibody (M02), clone 5E4. Western Blot analysis of PGGT1B expression in PC-12 ((Cat # AT3281a)



Immunoperoxidase of monoclonal antibody to PGGT1B on formalin-fixed paraffin-embedded human kidney. [antibody concentration 1.2 ug/ml]

Immunofluorescence of monoclonal antibody to PGGT1B on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged PGGT1B is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.