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SUFU Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SUFU.
Catalog # AT4102a

Product Information

Application	E
Primary Accession	Q9UMX1
Other Accession	BC013291
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1B2
Calculated MW	53947

Additional Information

Gene ID	51684
Other Names	Suppressor of fused homolog, SUFUH, SUFU
Target/Specificity	SUFU (AAH13291, 181 a.a. ~ 280 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	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	SUFU Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

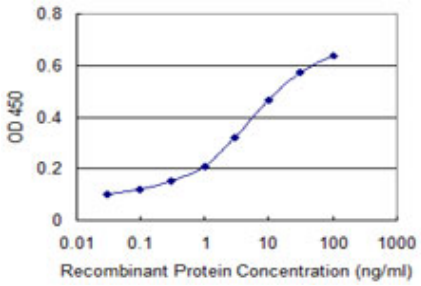
The Hedgehog signaling pathway plays an important role in early human development. The pathway is a signaling cascade that plays a role in pattern formation and cellular proliferation during development. This gene encodes a negative regulator of the hedgehog signaling pathway. Defects in this gene are a cause of medulloblastoma. Alternative splicing results in multiple transcript variants.

References

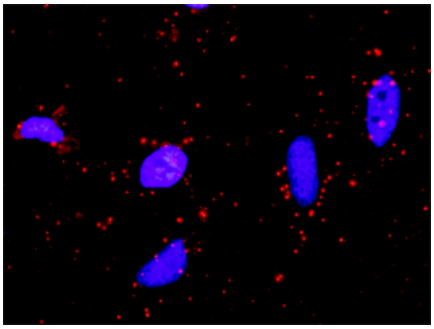
Incomplete penetrance of the predisposition to medulloblastoma associated with germ-line SUFU mutations. Brugi?res L, et al. J Med Genet, 2010 Feb. PMID 19833601.Identification of a SUFU germline mutation in a family with Gorlin syndrome. Pastorino L, et al. Am J Med Genet A, 2009 Jul. PMID

19533801.Expression of sonic hedgehog signaling molecules in normal, hyperplastic and carcinomatous endometrium. Kim KH, et al. Pathol Int, 2009 May. PMID 19432668.Role and regulation of human tumor suppressor SUFU in Hedgehog signaling. Cheng SY, et al. Adv Cancer Res, 2008. PMID 19055941.MicroRNA expression changes during human leukemic HL-60 cell differentiation induced by 4-hydroxynonenal, a product of lipid peroxidation. Pizzimenti S, et al. Free Radic Biol Med, 2009 Jan 15. PMID 19022373.

Images



Detection limit for recombinant GST tagged SUFU is approximately 0.1ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between STK36 and SUFU HeLa cells were stained with anti-STK36 rabbit purified polyclonal 1:1200 and anti-SUFU mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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