

SIX4 Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant SIX4.

Catalog # AT3896a

Product Information

Application	WB, IF, E
Primary Accession	Q9UIU6
Other Accession	NM_017420
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	7E3
Calculated MW	82933

Additional Information

Gene ID	51804
Other Names	Homeobox protein SIX4, Sine oculis homeobox homolog 4, SIX4
Target/Specificity	SIX4 (NP_059116, 672 a.a. ~ 780 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	SIX4 Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

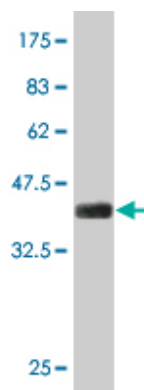
This gene encodes a member of the homeobox family, subfamily SIX. The drosophila homolog is a nuclear homeoprotein required for eye development. Studies in mouse show that this gene product functions as a transcription factor, and may have a role in the differentiation or maturation of neuronal cells.

References

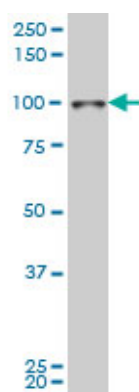
The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932. Six3 and Six6 activity is modulated by members of the groucho family.

Lopez-Ros J, et al. Development, 2003 Jan. PMID 12441302. Molecular interaction and synergistic activation of a promoter by Six, Eya, and Dach proteins mediated through CREB binding protein. Ikeda K, et al. Mol Cell Biol, 2002 Oct. PMID 12215533. The alpha subunits of Gz and Gi interact with the eyes absent transcription cofactor Eya2, preventing its interaction with the six class of homeodomain-containing proteins. Fan X, et al. J Biol Chem, 2000 Oct 13. PMID 10906137.

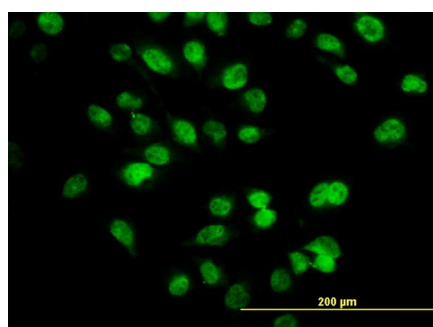
Images



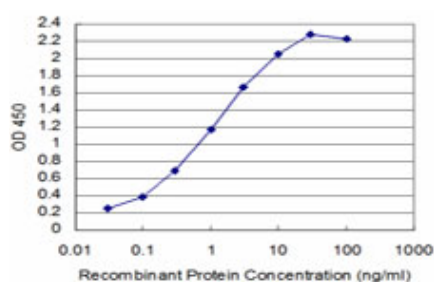
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .



SIX4 monoclonal antibody (M09), clone 7E2 Western Blot analysis of SIX4 expression in HeLa S3 NE (Cat # AT3896a)



Immunofluorescence of monoclonal antibody to SIX4 on HeLa cell. [antibody concentration 15 ug/ml]



Detection limit for recombinant GST tagged SIX4 is approximately 0.1ng/ml as a capture antibody.

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