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PAX7 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant PAX7.
Catalog # AT3191a

Product Information

Application	WB, IHC, E
Primary Accession	P23759
Other Accession	NM_002584
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1.0E+12
Calculated MW	55119

Additional Information

Gene ID	5081
Other Names	Paired box protein Pax-7, HuP1, PAX7, HUP1
Target/Specificity	PAX7 (NP_002575.1, 411 a.a. ~ 520 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 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	PAX7 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

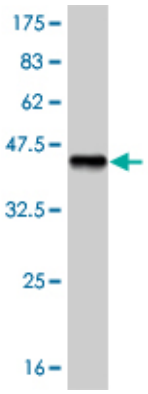
This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The specific function of the paired box 7 gene is unknown but speculated to involve tumor suppression since fusion of this gene with a forkhead domain family member has been associated with alveolar rhabdomyosarcoma. Three transcript variants encoding different isoforms have been found for this gene.

References

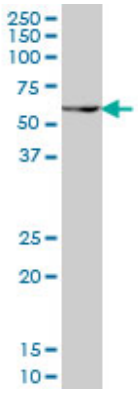
An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M,

et al. Hum Genet, 2010 Oct. PMID 20677014.Fusion gene-negative alveolar rhabdomyosarcoma is clinically and molecularly indistinguishable from embryonal rhabdomyosarcoma. Williamson D, et al. J Clin Oncol, 2010 May 1. PMID 20351326.Genome-wide association study confirms SNPs in SNCA and the MAPT region as common risk factors for Parkinson disease. Edwards TL, et al. Ann Hum Genet, 2010 Mar. PMID 20070850.High-density association study of 383 candidate genes for volumetric BMD at the femoral neck and lumbar spine among older men. Yerges LM, et al. J Bone Miner Res, 2009 Dec. PMID 19453261.Maternal transmission effects of the PAX genes among cleft case-parent trios from four populations. Sull JW, et al. Eur J Hum Genet, 2009 Jun. PMID 19142206.

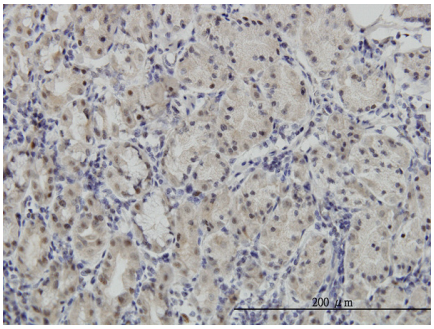
Images



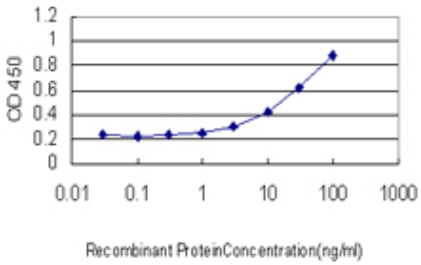
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



PAX7 monoclonal antibody (M05), clone 1E12 Western Blot analysis of PAX7 expression in NIH/3T3 ((Cat # AT3191a)



Immunoperoxidase of monoclonal antibody to PAX7 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 0.5 ug/ml]



Detection limit for recombinant GST tagged PAX7 is approximately 3ng/ml as a capture antibody.

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