

PNMA1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PNMA1.

Catalog # AT3360a

Product Information

Application	WB, IHC, E
Primary Accession	Q8ND90
Other Accession	NM_006029
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4G6
Calculated MW	39761

Additional Information

Gene ID	9240
Other Names	Paraneoplastic antigen Ma1, 37 kDa neuronal protein, Neuron- and testis-specific protein 1, PNMA1, MA1
Target/Specificity	PNMA1 (NP_006020, 62 a.a. ~ 160 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	PNMA1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

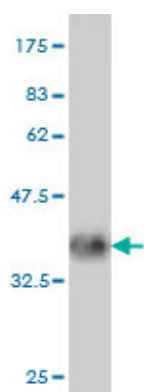
Background

The PNMA1 gene encodes an antineuronal antibody (anti-Ma) present in patients with paraneoplastic neurologic disorders (Dalmau et al., 1999 [PubMed 10050892]). Some paraneoplastic syndromes affecting the nervous system are associated with antibodies that react with neuronal proteins and the causal tumor (onconeural antigens) (summarized by Dalmau et al., 1999 [PubMed 10050892]). Several of these antibodies are markers of specific neurologic syndromes associated with distinct types of cancer. The presence of some antibodies is so specific that disorders previously identified by brain biopsy or at autopsy can be diagnosed serologically. The expression of neuronal proteins by the tumor appears to be a crucial step that breaks the immune tolerance for otherwise normal neuronal proteins. The identity of most onconeural antigens was established by probing human cDNA expression libraries with serum containing antineuronal antibodies.

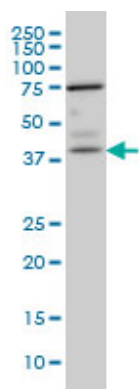
References

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348. A systematic analysis of human CHMP protein interactions: additional MIT domain-containing proteins bind to multiple components of the human ESCRT III complex. Tsang HT, et al. Genomics, 2006 Sep. PMID 16730941. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Lim J, et al. Cell, 2006 May 19. PMID 16713569. The human PNMA family: novel neuronal proteins implicated in paraneoplastic neurological disease. Sch?ller M, et al. J Neuroimmunol, 2005 Dec. PMID 16214224. A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.

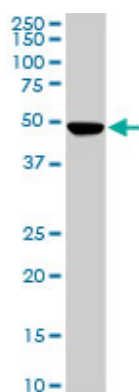
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .

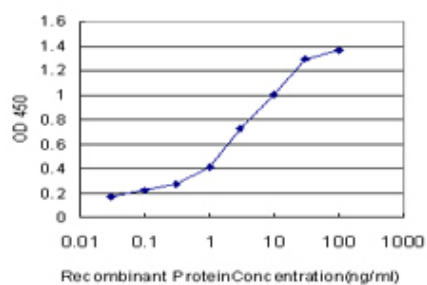
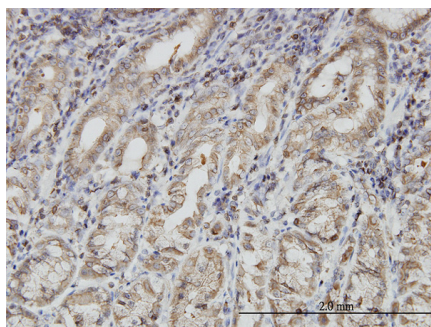


PNMA1 monoclonal antibody (M01), clone 4G6 Western Blot analysis of PNMA1 expression in IMR-32 ((Cat # AT3360a)



PNMA1 monoclonal antibody (M01), clone 4G6. Western Blot analysis of PNMA1 expression in Raw 264.7 ((Cat # AT3360a)

Immunoperoxidase of monoclonal antibody to PNMA1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged PNMA1 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'.