Mouse GPN1/XAB1 Monoclonal Antibody | anti-GPN1 antibody

GPN1/XAB1 (DNA Repair & Protein Synthesis)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214641	**Mouse**	**Human. Others not known.**	**Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

GPN1/XAB1; Monoclonal Antibody; GPN1/XAB1 (DNA Repair & Protein Synthesis); ATP(GTP) binding protein (ATPBD1A); GPN-loop GTPase 1; GPN1; MBD2-interacting protein (MBDin); NTPBP; RNA polymerase II associated protein 4 (RPAP4); XPA-binding protein 1 (XAB1) GTPase; anti-GPN1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	GPN1/2350
Specificity	GPN1 is involved in protein synthesis events. It is expressed ubiquitously with highest expression in testis. It binds to the RNA polymerase II- (Poll II) associated proteins RPAP1-3 and to XPA (a protein involved in DNA repair mechanisms), thereby forming an interface with Poll II. Via this interaction, GPN1 is thought to mediate the involvement of Pol II in both protein complex formation and protein chaperone/ scaffolding activities. In addition, GPN1 interacts with components of the integrator and molecular chaperone complexes, further implicating GPN1 in protein assembly. GPN1 contains a cluster of acidic amino acids in its C-terminal region and a series of sequences similar to those found in GTP-binding proteins in its N-terminal region, suggesting that GPN1 has possible GTPase activity.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	362
Applicable Applications for anti-GPN1 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant full-length human GPN1 protein
Cellular Localization	Cytoplasmic & Nuclear
Hu-chromosome Location	2p23.3
Positive Control	Pancreas, Testis, Thyroid or Bladder.

IMAGES



Application Data
Analysis of Protein Array containing more than 19, 000 full-length human proteins using GPN1 Mouse Monoclonal Antibody (GPN1/2350) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pancreas stained with GPN1 Mouse Monoclonal Antibody (GPN1/2350).



SDS-PAGE
SDS-PAGE Analysis Purified GPN1 Mouse Monoclonal Antibody (GPN1/2350).Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Nitta, M., et al. 2000. A novel cytoplasmic GTPase XAB1 interacts with DNA repair protein XPA. Nucleic Acids Res. 28: 4212-4218.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223005899
NCBI GeneID	11321
NCBI Accession #	NP_001138519.1
NCBI GenBank Nucleotide #	NM_001145047.1
UniProt Accession #	Q9HCN4; O76004; B4DQJ5; B4DQM4; B4DXU4; B5MBZ5
Molecular Weight	42kDa
NCBI Official Full Name	GPN-loop GTPase 1 isoform b
NCBI Official Synonym Full Names	GPN-loop GTPase 1
NCBI Official Symbol	GPN1
NCBI Official Synonym Symbols	XAB1; MBDIN; NTPBP; RPAP4; ATPBD1A
NCBI Protein Information	GPN-loop GTPase 1
UniProt Protein Name	GPN-loop GTPase 1
UniProt Gene Name	**GPN1**
UniProt Synonym Gene Names	MBDin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/gpn1-xab1-antibody-clone-gpn1-2350-immunohistochemistry-elisa/214641