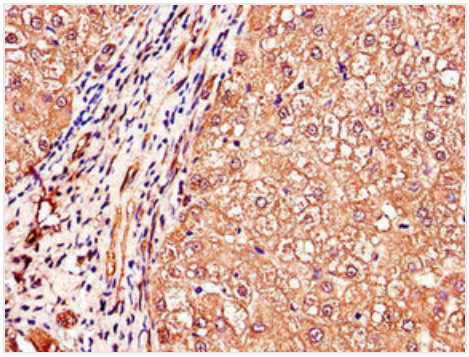
IGHMBP2 Antibody – Rabbit Polyclonal

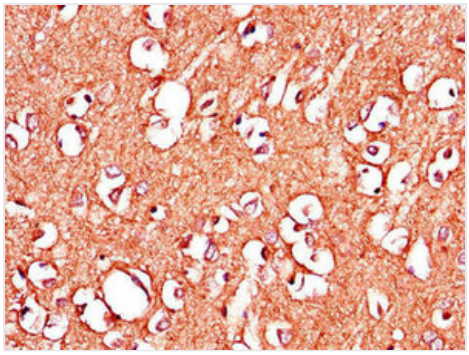
PRODUCT OVERVIEW

Product Name	IGHMBP2, Polyclonal Antibody
Full Product Name	IGHMBP2 Antibody
Product Gene Name	anti-IGHMBP2 antibody
Product Synonym Names	DNA-binding protein SMUBP-2; ATP-dependent helicase IGHMBP2; Glial factor 1; GF-1; Immunoglobulin mu-binding protein 2; IGHMBP2; SMBP2; SMUBP2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: IGHMBP2 (MBS7048448) HRP Conjugated Antibody: IGHMBP2 (MBS7048449)
Matching Pairs	Unconjugated Antibody: IGHMBP2 (MBS7048448) FITC Conjugated Antibody: IGHMBP2 (MBS7048450)
Matching Pairs	Unconjugated Antibody: IGHMBP2 (MBS7048448) Biotin Conjugated Antibody: IGHMBP2 (MBS7048451)
Molecular Weight	109,149 Da
OMIM	L14754 mRNA
3D Structure	ModBase 3D Structure for P38935
Immunogen	Recombinant human DNA-binding protein SMUBP-2 protein (646-884AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-168143
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IGHMBP2 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-IGHMBP2 antibody	IHC: 1: 20-1: 200

Related Product Information for anti-IGHMBP2 antibody	5' to 3' helicase that unwinds RNA and DNA duplices in an ATP-dependent reaction. Acts as a transcription regulator. Required for the transcriptional activation of the flounder liver-type antifreeze protein gene. Exhibits strong binding specificity to the enhancer element B of the flounder antifreeze protein gene intron. Binds to the insulin II gene RIPE3B enhancer region. May be involved in translation (By similarity). DNA-binding protein specific to 5'-phosphorylated single-stranded guanine-rich sequence related to the immunoglobulin mu chain switch region. Preferentially binds to the 5'-GGGCT-3' motif. Interacts with tRNA-Tyr. Stimulates the transcription of the human neurotropic virus JCV.
Other Notes	Small volumes of anti-IGHMBP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IGHMBP2 purchase	MBS7048448 is an antibody targeting IGHMBP2. Also known as IGHMBP2 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-IGHMBP2 antibody
Immunohistochemistry of paraffin-embedded human liver cancer using MBS7048448 at dilution of 1:100



Immunohistochemistry (IHC) of anti-IGHMBP2 antibody
Immunohistochemistry of paraffin-embedded human brain tissue using MBS7048448 at dilution of 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGHMBP2. It may not necessarily be applicable to this product.

NCBI GI #	119392094
NCBI GeneID	3508
NCBI Accession #	NP_002171.2
UniProt Primary Accession #	P38935
UniProt Secondary Accession #	Q00443; Q14177; A0PJD2
UniProt Related Accession #	P38935
GenBank Nucleotide #	NM_002180.2
NCBI Official Full Name	DNA-binding protein SMUBP-2
NCBI Official Synonym Full Names	immunoglobulin mu binding protein 2
NCBI Official Symbol	IGHMBP2
NCBI Official Synonym Symbols	HCSA; HMN6; CATF1; CMT2S; SMARD1; SMUBP2; ZFAND7
UniProt Protein Name	DNA-binding protein SMUBP-2
UniProt Synonym Protein Names	ATP-dependent helicase IGHMBP2; Glial factor 1; GF-1; Immunoglobulin mu-binding protein 2
Protein Family	DNA-binding protein
UniProt Gene Name	IGHMBP2
UniProt Synonym Gene Names	SMBP2; SMUBP2; GF-1
UniProt Entry Name	SMBP2_HUMAN

NCBI Protein Information	DNA-binding protein SMUBP-2
NCBI Summary for IGHMBP2	This gene encodes a helicase superfamily member that binds a specific DNA sequence from the immunoglobulin mu chain switch region. Mutations in this gene lead to spinal muscle atrophy with respiratory distress type 1. [provided by RefSeq, Jul 2008]
UniProt Comments for IGHMBP2	IGHMBP2: 5' to 3' helicase that unwinds RNA and DNA duplices in an ATP-dependent reaction. Acts as a transcription regulator. Required for the transcriptional activation of the flounder liver- type antifreeze protein gene. Exhibits strong binding specificity to the enhancer element B of the flounder antifreeze protein gene intron. Binds to the insulin II gene RIPE3B enhancer region. May be involved in translation. DNA-binding protein specific to 5'-phosphorylated single-stranded guanine-rich sequence related to the immunoglobulin mu chain switch region. Preferentially binds to the 5'-GGGCT-3' motif. Interacts with tRNA-Tyr. Stimulates the transcription of the human neurotropic virus JCV. Defects in IGHMBP2 are the cause of distal hereditary motor neuronopathy type 6 (HMN6); also known as spinal muscular atrophy distal autosomal recessive 1 (DSMA1) or spinal muscular atrophy with respiratory distress 1 (SMARD1). Distal hereditary motor neuronopathies constitute a heterogeneous group of neuromuscular disorders caused by selective degeneration of motor neurons in the anterior horn of the spinal cord, without sensory deficit in the posterior horn. The overall clinical picture consists of a classical distal muscular atrophy syndrome in the legs without clinical sensory loss. The disease starts with weakness and wasting of distal muscles of the anterior tibial and peroneal compartments of the legs. Later on, weakness and atrophy may expand to the proximal muscles of the lower limbs and/or to the distal upper limbs. The most prominent symptoms of HMN6 are severe respiratory distress resulting from diaphragmatic paralysis with eventration shown on chest x-ray and predominant involvement of the upper limbs and distal muscles. Belongs to the DNA2/NAM7 helicase family. Protein type: DNA-binding; EC 3.6.4.12; EC 3.6.4.13; Helicase Chromosomal Location of Human Ortholog: 11q13.3 Cellular Component: axon; cytoplasm; growth cone; membrane; nucleus; ribonucleoprotein complex; SMN complex Molecular Function: ATP binding; ATP-dependent 5'-3' DNA helicase activity; ATP-dependent 5'-3' RNA helicase activity; DNA binding; DNA helicase activity; DNA-dependent ATPase activity; protein binding; ribosome binding; RNA binding; RNA-dependent ATPase activity; single-stranded DNA binding; transcription factor binding; tRNA binding Biological Process: DNA recombination; DNA repair; DNA replication; protein homooligomerization Disease: Charcot-marie-tooth Disease, Axonal, Type 2s; Spinal Muscular Atrophy, Distal, Autosomal Recessive, 1
Research Articles on IGHMBP2	**1.** Case report and review of 20 reported spinal muscular atrophy with respiratory distress type I cases that have no respiratory involvement or have late onsets, propose that IGHMBP2 gene mutations are characterized by significant phenotypic heterogeneity
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/ighmbp2/7048448