Datasheet for ABIN2786586

anti-MBP antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	MBP
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Pig, Rabbit, Guinea Pig, Dog, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MBP
Sequence:	FGGDRGAPKR GSGKDSHHPA RTAHYGSLPQ KSHGRTQDEN PVVHFFKNIV
Predicted Reactivity:	Cow: 80%, Dog: 87%, Guinea Pig: 79%, Horse: 80%, Human: 100%, Mouse: 93%, Pig: 80%, Rabbit: 93%, Rat: 87%
Characteristics:	This is a rabbit polyclonal antibody against MBP. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	MBP

Target Details

Alternative Name:	Myelin basic protein (MBP Products)
Background:	The classic group of MBP isoforms (isoform 4-isoform 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T-cells and neural cells. Differential splicing events combined with optional post-translational modifications give a wide spectrum of isomers, with each of them potentially having a specialized function. MBP induces T-cell proliferation.The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called 'Golli-MBP') that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes. Alias Symbols: MGC99675 Protein Interaction Partner: CTDSP1, MAP3K3, UBC, PRKCB, MAPK3, MAPK1, ULK1, SQSTM1, PKN1, HIPK2, MNAT1, CDK9, CDK8, CDK7, CCNT1, CCNH, CCNC, MELK, DDX58, MAPK14, AT4G38520, AT4G31860, AT4G28400, ABI1, RPS6KA6, TOPP8, AT5G24940, AT5G10740, AT5G06750, AT3G17250, AT3G02750, AT3G15260, Protein Size: 304
Molecular Weight:	33 kDa
Gene ID:	4155
NCBI Accession:	NM_001025101, NP_001020272
UniProt:	P02686

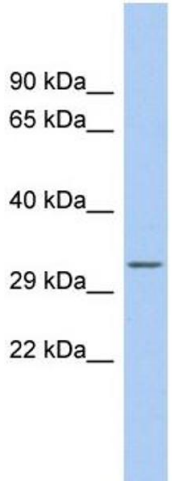
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 304 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

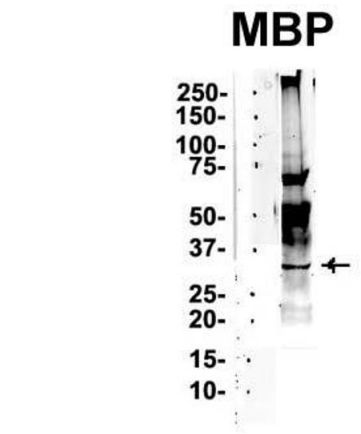


Western Blotting

Image 1. WB Suggested Anti-MBP Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:312500

Positive Control: Human brain



See Other Application Data and Customer Feedback tab for more information.

Western Blotting

Image 2. IP Suggested Anti-MBP Antibody

Positive Control: NT2 CELL/BRAIN TISSUE