Datasheet for ABIN2787362

anti-MAPK7 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	MAPK7
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPK7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MAPK7
Sequence:	FDMGVADGPQ DGQADSASLS ASLLADWLEG HGMNPADIES LQREIQMDSP
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against MAPK7. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	MAPK7
Alternative Name:	MAPK7 (MAPK7 Products)

Target Details

Background:	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported. Alias Symbols: BMK1, ERK4, ERK5, PRKM7 Protein Interaction Partner: PRKCZ, NFE2L2, UBE2C, MAP3K2, TP53, MAP2K5, PML, DSG1, DSC1, PFDN6, VBP1, MAPK7, PFDN5, PFDN4, PFDN2, PFDN1, JUP, GAPDH, BAG3, PKM, LDHC, HSP90AB1, HSPA5, HSPA4, ATP5A1, ACTB, PPP3CA, TUBB, MYLK2, GANAB, CDC37, YWHAZ, YWHAH, YWHAG, YWHAE, UBC, HSP90B1, FS Protein Size: 816
Molecular Weight:	88 kDa
Gene ID:	5598
NCBI Accession:	NM_139034, NP_620603
UniProt:	Q13164
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, cAMP Metabolic Process, Toll-Like Receptors Cascades, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 816 AA
Restrictions:	For Research Use only

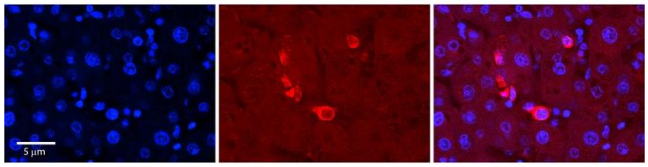
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

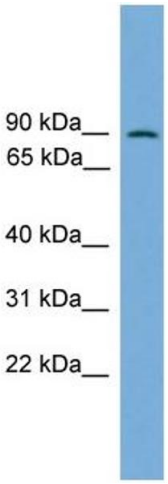
	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. Rabbit Anti-MAPK7 Antibody Catalog Number: ARP57731_P050 Formalin Fixed Paraffin Embedded Tissue: Human Adult Liver Observed Staining: Cytoplasm in Kupffer cells only, strong signal, low tissue distribution Primary Antibody Concentration: 1:100 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 – 2.0 sec Protocol located in Reviews and Data.



Western Blotting

Image 2. WB Suggested Anti-MAPK7 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Muscle