

# Product Datasheet

## MNK1 Antibody (2F12) - Azide and BSA Free H00008569-M14

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00008569-M14**

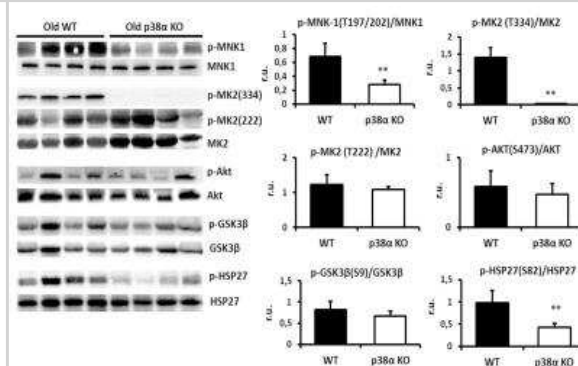
MNK1 Antibody (2F12) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2F12
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	8569
Gene Symbol	MKNK1
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	MAP kinase interacting serine/threonine kinase 1
Immunogen	MKNK1 (AAH02755.1, 1 a.a. ~ 465 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MVSSQKLEKPIEMGSSEPLPIADGDRRRKKRRRGRATDSLPGKFEDMYKLTSE LLGEGAYAKVQGAVSLQNGKEYAVKIIKQAGHSRSRVFREVETLYQCQRNKN ILELIEFFEDDTRFYLVFEKLGGSILAHIQKQKHFNEREASRVVRGVAAALDFL HTKDKVSLCHLGSAMAPSGLTAAPTSLGSSDPPTSASQVAGTTGIAHRDLKP ENILCESPEKVSPVKICDFDLGSGMKLNNSTPITTPPELTTPCGSAEYMAPEVV EVFTDQATFYDKRCDLWSLGVVLYIMLSGYPPFVGHCGADCGWDRGEVCRVC QNKLFESI QEGKYEFPDKDWAHISSEAKDLISKLLVRDAKQRLSAAQVLQHPWV QQQAPEKGLPTPQVLQRNSSTMDLTLFAEAIALNRLLSQHEENELAEPEALA DGLCSMKLSPCKSRLARRRALAQAGRGEDRSPPTAL
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactivity against recominant protein and cell lysate for WB. It has also been used for IF, IHC-P and ELISA.

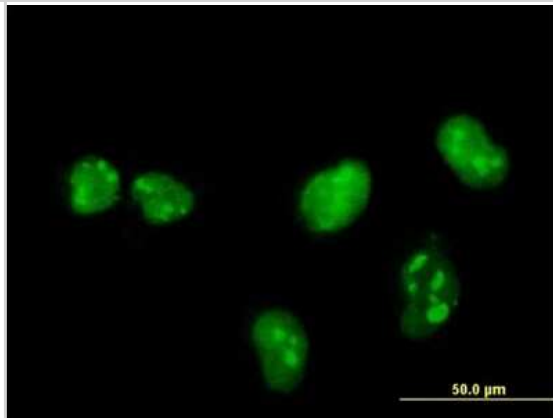


## Images

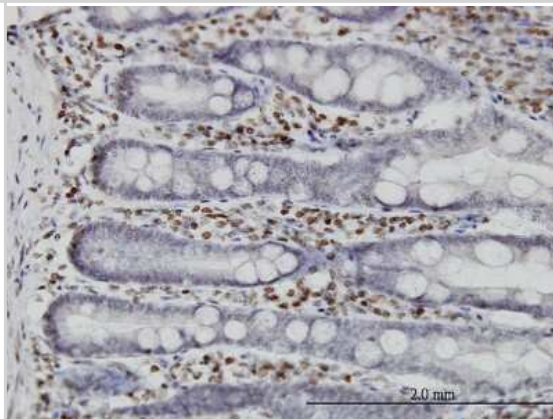
Western Blot: MNK1 Antibody (2F12) [H00008569-M14] - Old wild type and p38 alpha knock out livers were Western blotted for MNK1 and phosphorylated MNK1 on Thr197/202. Alpha tubulin was used as a loading control. Densitometric quantification of p-MNK-1 (T197/202)/MNK1 were determined. Data are shown as mean +/- SD. \*\*P < 0.01 WT versus KO. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0171738>) licensed under a CC-BY license.



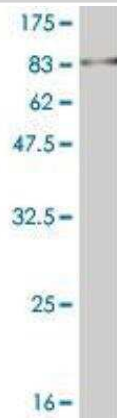
Immunocytochemistry/Immunofluorescence: MNK1 Antibody (2F12) [H00008569-M14] - Analysis of monoclonal antibody to MNK1 on HeLa cell. Antibody concentration 10 ug/ml



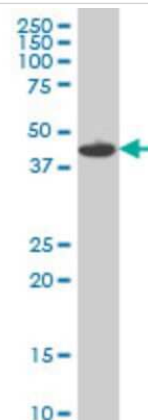
Immunohistochemistry-Paraffin: MNK1 Antibody (2F12) [H00008569-M14] - Analysis of monoclonal antibody to MNK1 on formalin-fixed paraffin-embedded human small Intestine. Antibody concentration 3 ug/ml



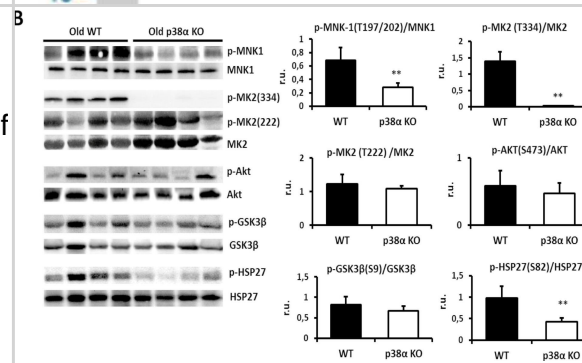
Western Blot: MNK1 Antibody (2F12) [H00008569-M14] - detection against Immunogen (77.26 KDa) .



Western Blot: MNK1 Antibody (2F12) [H00008569-M14] - Analysis of MKNK1 expression in Raw 264.7. (Isoform: 51.342, 47.402, 39.103 kD)



Western Blot: MNK1 Antibody (2F12) [H00008569-M14] - p38 $\alpha$ -mediated phosphorylation pathways. a. Old wild type & p38 $\alpha$  knock out livers were Western blotted for phosphorylated MKK3/6 & MKK4, for phosphorylated p38 & total levels of p38 $\alpha$ . Densitometric quantification of p-MKK3/6 (S189/207)/ $\alpha$ -tubulin, p-MKK4 (S257/T261)/ $\alpha$  tubulin were done. b. Old wild type & p38 $\alpha$  knock out livers were Western blotted for MNK1 & phosphorylated MNK1 on Thr197/202, for MK2 & phosphorylated MK2 on Thr334 & Thr222, for AKT & phosphorylated AKT on Ser473, for GSK3 $\beta$  & phosphorylated GSK3 $\beta$  on serine 9 & for HSP27 & phosphorylated HSP27 on Ser 82.  $\alpha$ -tubulin was used as a loading control. Densitometric quantification of p-MNK-1 (T197/202)/MNK1, p-MK2 (T334)/MK2, p-MK2 (T222) /MK2, p-AKT (S473)/AKT, p-GSK3 $\beta$ (S9)/GSK3 $\beta$  & p-HSP27(S82)/HSP27 were determined. Data are shown as mean  $\pm$  SD. \*\*P < 0.01 WT versus KO. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0171738>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Tormos AM, Rius-Perez S, Jorques M et al. p38alpha regulates actin cytoskeleton and cytokinesis in hepatocytes during development and aging. PLoS ONE. 2017-02-06 [PMID: 28166285] (WB, Mouse)



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### **Products Related to H00008569-M14**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00008569-P01-10ug	Recombinant Human MNK1 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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