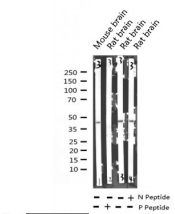
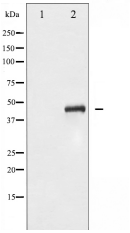
Phospho-SEK1/MKK4 (Ser80) Ab

Cat.#: AF3321	Concn.: 1mg/ml	Mol.Wt.: 44kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

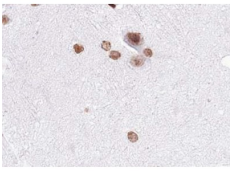
Application:	WB 1:500-1:2000 IHC 1:50-1:200
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-SEK1/MKK4 (Ser80) Ab detects endogenous levels of SEK1/MKK4 only when phosphorylated at Serine 80.
Immunogen:	A synthesized peptide derived from human SEK1/MKK4 around the phosphorylation site of Serine 80.
Uniprot:	P45985
Description:	MKK4 dual specificity kinase of the STE7 family that phosphorylates and activates JNK1 and -2 as well as p38 but not ERK1 or -2. Mediates cellular responses to various cellular stresses and inflammatory cytokines. Phosphorylation by Akt inhibits MKK4 and suppresses stress-activated signal transduction.
Subcellular Location:	Nucleus;
Tissue Specificity:	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.
Similarity:	The DVD domain (residues 364-387) contains a conserved docking site and is found in the mammalian MAP kinase kinases (MAP2Ks). The DVD sites bind to their specific upstream MAP kinase kinase kinases (MAP3Ks) and are essential for activation.The D domain (residues 34-52) contains a conserved docking site and is required for the binding to MAPK substrates.Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of Phospho-SEK1/MKK4 (Ser80) expression in various lysates



Western blot analysis of SEK1/MKK4 phosphorylation expression in NIH-3T3 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3321 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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