Immunotag™ Phospho-MAP2K7(Thr275) Antibody

Antibody Specification

Catalog No.	ITA7769
Product Description	Immunotag™ Phospho-MAP2K7(Thr275) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-MAP2K7(Thr275)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:1000-3000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human Phospho-MAP2K7(Thr275)
Specificity	Phospho-MAP2K7(Thr275) Antibody detects endogenous levels of MAP2K7 only when phosphorylated at Thr275
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	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
Gene Name	MAP2K7
Accession No.	O14733

Antibody Specification

Alternate Names	c-Jun N-terminal kinase kinase 2; Dual specificity mitogen activated protein kinase kinase 7; Dual specificity mitogen-activated protein kinase kinase 7; JNK activating kinase 2; JNK kinase 2; JNK-activating kinase 2; JNKK 2; Jnkk-2; Jnkk2; MAP kinase kinase 7; MAP2K7; MAPK/ERK kinase 7; MAPKK 7; MAPKK-7; MAPKK7; MEK 7; Mitogen Activated Protein Kinase kinase 7; MKK 7; MKK-7; MKK7; MP2K7_HUMAN; PRKMK 7; PRKMK-7; PRKMK7; SAPK kinase 4; SAPKK-4; SAPKK4; Sek 2; Sek-2; Sek2; SKK4; stress-activated protein kinase kinase 4;
Description	Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Essential component of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. With MAP2K4/MKK4, is the one of the only known kinase to directly activate the stress-activated protein kinase/c-Jun N-terminal kinases MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3. MAP2K4/MKK4 and MAP2K7/MKK7 both activate the JNKs by phosphorylation, but they differ in their preference for the phosphorylation site in the Thr-Pro-Tyr motif. MAP2K4/MKK4 shows preference for phosphorylation of the Tyr residue and MAP2K7/MKK7 for the Thr residue. The monophosphorylation of JNKs on the Thr residue is sufficient to increase JNK activity indicating that MAP2K7/MKK7 is important to trigger JNK activity, while the additional phosphorylation of the Tyr residue by MAP2K4/MKK4 ensures optimal JNK activation. Has a specific role in JNK signal transduction pathway activated by proinflammatory cytokines. The MKK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	47 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.