

DESCRIPTION

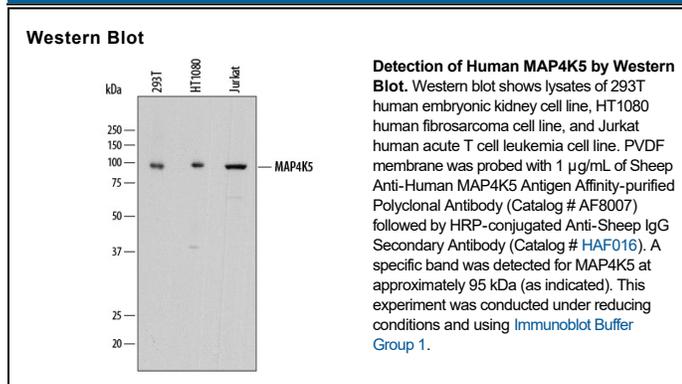
Species Reactivity	Human
Specificity	Detects human MAP4K5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MAP4K5 Lys395-Asn484 (Asn473Lys) Accession # Q9Y4K4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

MAP4K5 (MAP Kinase Kinase Kinase Kinase 5; also known as KHS, MEKKK5, and GCKR) is a 94-96 kDa member of the STE (STERile 20 protein) subfamily, STE Ser/Thr protein kinase family, protein kinase superfamily of enzymes. It is ubiquitously expressed, and serves as an "intermediary" between GPCRs and cytosolic MAP kinases. It also interacts with Crk (CT10 Regulator of Kinase)-related adaptor molecules, facilitating the formation of signaling complexes around Tyr phosphorylated molecules. And finally, it represents an upstream component of a TNFR1 signaling pathway that requires activation of stress-activated protein kinases. Human MAP4K5 is 846 amino acids (9aa) in length. It contains a 258 aa kinase domain (aa 20-277) that is coupled to a 316 aa CNH (citron homology) domain (aa 506-826) which typically binds GTPases. There are two isoform variants. One shows a deletion of both Pro481 and Glu569, while another possesses a substitution of 16 aa for aa 569-846. Over aa 395-484, human MAP4K5 shares 83% aa sequence identity with mouse MAP4K5.