Human MAP4K5 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF8007X
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MAP4K5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human MAP4K5 Lys395-Asn484 (Asn473Lys) Accession # Q9Y4K4
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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