

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MST1/STK4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human MST2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MST1/STK4 Lys285-Asp443 Accession # Q13043
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
Immunocytochemistry	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

MST1 (mammalian sterile twenty-like 1; also Ser/Thr-protein kinase 4) is a 56 kDa class II GC (germinal center) kinase that contains an STE class catalytic domain. It is ubiquitously expressed, and found in both cytoplasm and nucleus. Human MST1 is 487 amino acids (aa) in length. It contains a Ser/Thr protein kinase domain (aa 30-281), followed by two caspase cleavage sites (Asp326 and 349), two NLS motifs (aa 361-370 and 441-451) and a dimerization domain that spans the C-terminal 57 amino acids. Upon dimerization, MST1 is activated via autophosphorylation at Thr183. Two MST1 variants exist; one shows a substitution of three Lys for the C-terminal 85 aa, while a second shows a 27 aa substitution for the C-terminal 55 amino acids. Over aa 285-443, human MST1 shows 94% aa identity to mouse MST1.

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