

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MASTL in direct ELISA.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MASTL. Lys39-Lys158 Accession # Q96GX5
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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

MASTL is a ubiquitous microtubule associated serine/threonine kinase which plays a key role in mitosis. During entry into mitosis, CDK1 and MASTL kinase repress the activity of mitotic protein phosphatases PP1 and PP2A. Mitotic exit requires partial dephosphorylation of MASTL by PP1, followed by dephosphorylation of PP2A. PP1 is partially reactivated by decreases in CDK1 activity. PP1 then reactivates PP2A. Mutations of MASTL have been associated with autosomal dominant thrombocytopenia, a decrease in the number of platelets circulating in blood. MASTL kinase is frequently upregulated in several cancers, and is correlated with cancer progression, poor patient survival and tumor recurrence. Ectopic expression of MASTL in tumor cells has been shown to promote cell proliferation, and MASTL has been identified as a target for therapeutic intervention.

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