10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-MST4 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1942a

Specification

Goat Anti-MST4 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9P289
Other Accession	NP_001035917, 51765
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**46529**

Goat Anti-MST4 Antibody - Additional Information

Gene ID 51765

Other Names
Serine/threonine-protein kinase 26, 2.7.11.1, MST3 and SOK1-related kinase, Mammalian STE20-like protein kinase 4, MST-4, STE20-like kinase MST4, Serine/threonine-protein kinase MASK, STK26 (HGNC:18174)

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-MST4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MST4 Antibody - Protein Information

Name STK26 (HGNC:18174)

Function
Serine/threonine-protein kinase that acts as a mediator of cell growth (PubMed:11641781, PubMed:17360971). Modulates

apoptosis (PubMed:11641781, PubMed:17360971). In association with STK24 negatively regulates Golgi reorientation in polarized cell migration upon RHO activation (PubMed:27807006). Phosphorylates ATG4B at 'Ser- 383', thereby increasing autophagic flux (PubMed:29232556).

Cellular Location
Cytoplasm. Golgi apparatus Note=Colocalized with RIPOR1 in the Golgi of serum-starved cells and relocated to cytoplasmic punctae, probably vesicular compartments, along with RIPOR1 upon serum stimulation in a Rho- and PDCD10-dependent manner (PubMed:27807006).

Goat Anti-MST4 Antibody - Protocols

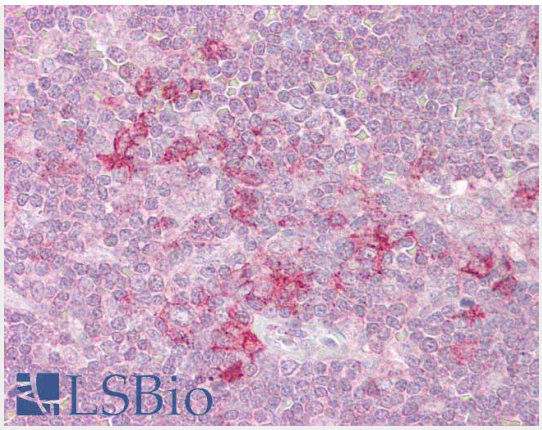
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-MST4 Antibody - Images



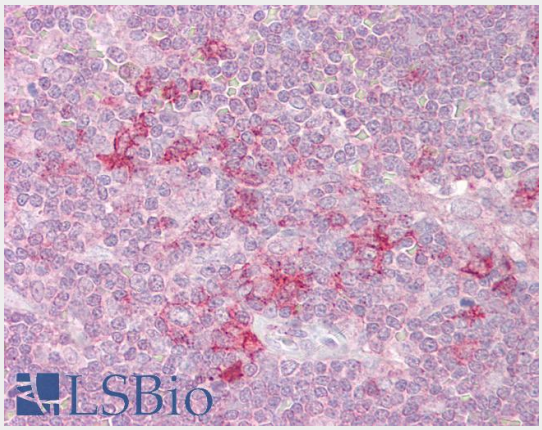
AF1942a staining (0.5 µg/ml) of Jurkat lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by chemiluminescence.



AF1942a (2.5 µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB05368 staining (0.5µg/ml) of Jurkat lysate (RIPA buffer, 35µg total protein per lane). Primary incubated for 1 hour. Detected by chemiluminescence.



EB05368 (2.5µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-MST4 Antibody - Background

The product of this gene is a member of the GCK group III family of kinases, which are a subset of the Ste20-like kinases. The encoded protein contains an amino-terminal kinase domain, and a carboxy-terminal regulatory domain that mediates homodimerization. The protein kinase localizes

to the Golgi apparatus and is specifically activated by binding to the Golgi matrix protein GM130. It is also cleaved by caspase-3 in vitro, and may function in the apoptotic pathway. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

Goat Anti-MST4 Antibody - References

Mst4 and Ezrin induce brush borders downstream of the Lkb1/Strad/Mo25 polarization complex. ten Klooster JP, et al. Dev Cell, 2009 Apr. PMID 19386264.
A PP2A phosphatase high density interaction network identifies a novel striatin-interacting phosphatase and kinase complex linked to the cerebral cavernous malformation 3 (CCM3) protein. Goudreault M, et al. Mol Cell Proteomics, 2009 Jan. PMID 18782753.
PDCD10 interacts with Ste20-related kinase MST4 to promote cell growth and transformation via modulation of the ERK pathway. Ma X, et al. Mol Biol Cell, 2007 Jun. PMID 17360971.
Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.
The DNA sequence of the human X chromosome. Ross MT, et al. Nature, 2005 Mar 17. PMID 15772651.