



Qty: 100 µg/200 µL

Mouse anti-MST3

Catalog No. 39-6200

Lot No.

Mouse anti-MST3

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: ZM003

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

Synthetic peptide derived from the N-terminal region of the human MST3 protein

SPECIFICITY

This antibody is specific for the MST3 (serine/threonine-protein kinase 24, mammalian STE20-like protein kinase 3, MST3B, STE20-like kinase MST3, STK3) protein. On Western blots, it identifies the target band at ~52 kDa.

REACTIVITY

Reactivity has been confirmed with human HeLa and mouse 3T3 cell lysates.

Sample	ELISA	Western Blotting
Human	ND	+++
Mouse	ND	+
Immunogen	+++	N/A

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

0* No reactivity observed under conditions tested.

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1 µg/mL
Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

MST3 (Serine/threonine-protein kinase 24, Mammalian STE20-like protein kinase 3, MST3B, STE20-like kinase MST3, STK3) is a mammalian Ste20-like kinase belonging to the germinal center kinase (GCK) family.¹ Northern blot analysis revealed ubiquitous expression of a 2.0-kb MST3 transcript, with highest levels detected in heart, skeletal muscle, and pancreas.² MST3 contains a conserved kinase domain at its N-terminus and a regulatory domain at its C-terminus. Caspase-mediated cleavage of MST3 occurs at the junction between kinase and regulatory domains and turns on kinase activity; this proteolytic activation produces nuclear translocation of the kinase domain and the induction of apoptosis.³

REFERENCES

1. Zhou TH, et al. *J Biol Chem* 275(4):2513-2519, 2000.
2. Schinkmann K & Blenis J. *J Biol Chem* 272(45):28695-28703, 1997.
3. Huang CF, et al. *J Biol Chem* 277(37):34367-34374, 2002.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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