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Zuschläge

- Mindermengenzuschlag
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Anti-Tsp23 Antibody [Tsp232A]

Mouse Anti-Human Tsp23 Monoclonal IgG1 Kappa
Catalog No. SMC-194



Discovery through partnership | Excellence through quality

Overview

Product Name

Tsp23 Antibody

Description

Mouse Anti-Human Tsp23 Monoclonal IgG1 Kappa

Species Reactivity

Human, Mouse

Applications

WB, IHC

Antibody Dilution

WB (1:1000), IHC (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Recombinant tsp23

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

Tsp232A

Isotype

IgG1 Kappa

Specificity

Detects ~19kDa. Detects Tsp23, no cross-reactivity to p23.

Cite This Product

Mouse Anti-Human TSP23 Monoclonal, Clone Tsp232A (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-194)

Certificate Of Analysis

1 µg/ml of SMC-194 was sufficient for detection of tsp23 in 20 µg of transiently transfected Hela cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Transcript similar p23 Antibody, AARSD1 Antibody, AASD1_HUMAN Antibody, Alanyl-tRNA editing protein Aarsd1 Antibody, Alanyl-tRNA synthetase domain containing 1 Antibody, Alanyl-tRNA synthetase domain-containing protein 1 Antibody, MGC2744 Antibody, OTTHUMP00000204017 Antibody, OTTHUMP00000204019 Antibody, OTTHUMP00000204020 Antibody

Research Areas

Cancer, Heat Shock, Cell Signaling, Epigenetics

Cellular Localization

Cytoplasm

Accession Number

NP_001136126.1

Gene ID

80755

Swiss Prot

B9A003

Scientific Background

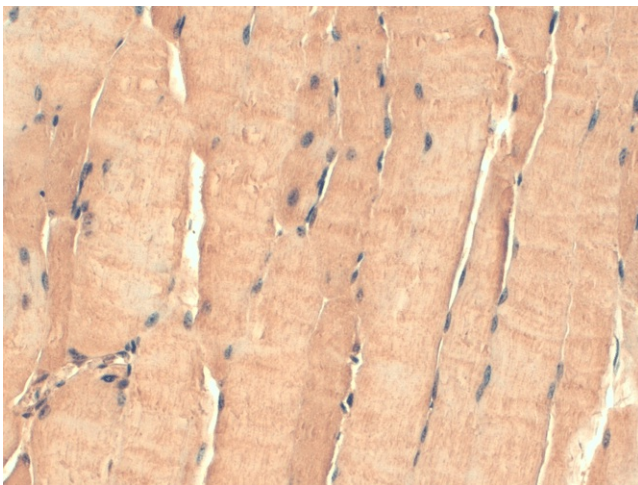
p23 is a highly conserved ubiquitous protein, known to have an important function as a cochaperone for the HSP90 chaperoning system (1). Studies have revealed that p23 is a small protein (18 to 25 kDa) with a simple structure (2, 3). p23 is a phosphor-protein, which is highly acidic and has an aspartic acid-rich c-terminal domain (1). Numerous studies have found p23 to be associated with other client proteins like Fes tyrosine kinase (4), the heme regulated kinase HRI (5), hsf1 transcription factor (4), aryl hydrocarbon receptor (4), telomerase (6), and Hepadnavirus reverse transcriptase (7). In spite of several years of study, the exact functional significance of p23 is still not clear (8). p23 is thought to be involved in the adenosine triphosphatemediated HSP90 binding of client proteins (8). Since many HSP90 client proteins are involved in oncogenic survival signaling, a recent study has concluded p23 to be a promising target in leukemic apoptosis (9). HSP90 and its co-chaperone p23 are certainly among the emerging anti-tumor

targets in oncology. Specifically TSP23 (transcript similar p23) displays 44% and 17% amino acid identity with p23 and Sba1p respectively (10).

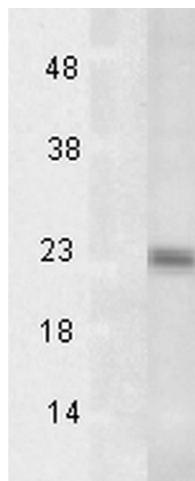
References

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2. Weikl T., Abelmann K., Buchner J. (1999) *J Mol Biol* 293: 685-91.
3. Weaver A.J., Sullivan W.P., Felts S.J., Owen B.A., Toft D.O. (2000) *J Biol Chem* 275: 23045-52.
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5. Xu Z., et al. (1997) *Eur J Biochem* 246, 461-70.
6. Holt S.E., et al. (1999) *Genes Dev* 13: 817-26.
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8. Felts, S.J., Toft D.O. (2003) *Cell Stress Chaperones*.8: 108-13.
9. Gausdal G., Gjertsen B.T., Fladmark K.E., Demol H., Vandekerckhove J. & Doskeland S.O. (2004) *Leukemia*
10. Freeman B.C., Felts S.J., Toft D.O., Yamamoto K.R. (2000) *Genes Dev.* 14(4): 433-434.

Product Images



Immunohistochemistry analysis using Mouse Anti-Tsp23 Monoclonal Antibody, Clone TSp232A (SMC-194). Tissue: Heart Skeletal Muscle. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-Tsp23 Monoclonal Antibody (SMC-194) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at RT.



Western Blot analysis of Human Heat Shocked HeLa cell lysates showing detection of Tsp23 protein using Mouse Anti-Tsp23 Monoclonal Antibody, Clone TSp232A (SMC-194). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Tsp23 Monoclonal Antibody (SMC-194) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (2)

Other Citations

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) *J Adv Bio & Biotech.* 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

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PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Reviews

There are no reviews yet.