Rat Aha1 Monoclonal Antibody | anti-Ahsa1 antibody

Aha1 Antibody: ATTO 488

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA102953	**Rat**	**Human, Mouse, Rat**	**Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Immunoprecipitation, ELISA, Western Blot**

PRODUCT SYNONYMS

Aha1; Monoclonal Antibody; Aha1 Antibody: ATTO 488; Aha 1; Ahsa1; p38; HspC322; C14orf3; Activator of Hsp90 ATPase; Activator of 90 kDa heat shock protein ATPase homolog 1; anti-Ahsa1 antibody

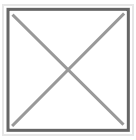
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2a Kappa
Clone Number	25F2.D10
Form/Format	Protein G Purified
Concentration	1.59mg/mL (varies by lot)
Sequence Length	338
Applicable Applications for anti-Ahsa1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IP (Immunoprecipitation), ELISA, WB (Western Blot)
Conjugate	ATTO 488
Storage Buffer	0.02M potassium phosphate, 0.15M sodium chloride, pH7.2
Preparation and Storage	-20 degree C

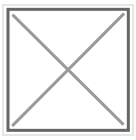
IMAGES

WB (Western Blot)
Western Blot analysis of Human Cell lysates showing detection of Aha1 protein using Rat Anti-Aha1 Monoclonal Antibody, Clone 25F2.D10. Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rat Anti-Aha1 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

IHC (Immunohistochemisry)
Immunohistochemistry analysis using Rat Anti-Aha1 Monoclonal Antibody, Clone 25F2.D10. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Rat Anti-Aha1 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rat (green) at 1:50 for 1 hour at RT. Localization: Uppermost epidermis staining, and muscle.



IP (Immunoprecipitation)
Immunoprecipitation analysis using Rat Anti-Aha1 Monoclonal Antibody, Clone 25F2.D10. Tissue: HeLa cells. Species: Human. Primary Antibody: Rat Anti-Aha1 Monoclonal Antibody at 1:1000.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Rat Anti-Aha1 Monoclonal Antibody, Clone 25F2.D10. Tissue: Cervical cancer cell line (HeLa). Species: Human. Primary Antibody: Rat Anti-Aha1 Monoclonal Antibody at 1:1000. Secondary Antibody: FITC Goat Anti-Rat (green).

ADDITIONAL INFORMATION

Related Product Information for anti-Ahsa1 antibody	**Background Info:** Detects ~38kDa. Can run up to 45kDa on SDS Page **Scientific Background:** Aha1 is a member of the Hsp90 cochaperone family, and is thought to stimulate Hsp90 ATPase activity by competing with p23 and other co-chaperones for Hsp90 binding (1, 2). It may affect a step in the endoplasmic reticulum to Golgi trafficking. Aha1 also interacts with HSPCA/Hsp90 and with the cytoplasmic tail of the vesicular stomatistis virus glycoproteins (VSV G) (3). Aha1 is expressed in numerous tissues, including the brain, heart, skeletal muscle, and kidney, and at low levels, the liver and placenta. Aha1 might be a potential therapeutic strategy to increase sensitivity to HSP inhibitors (4).
Product Categories/Family for anti-Ahsa1 antibody	Chaperones; Heat Shock
References	1. Hainzl O., Lapina M.C., Buchner J., Richter K. (2009) J Biol Chem. Epub. 2. Harst A., Lin H., Obermann W.M. (2005) Biochem J. 387 (pt.3): 789-796. 3. Lotz G.P., Brychzy A., Heinz S., Obermann W.M. (2008) J Cell Sci. 121(pt.5): 717-723. 4. Holmes J.L., Sharp S.Y., Hobbs S., Workman P. (2008) Cancer Res. 68(4): 1188-1197.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22122515
NCBI GeneID	217737
NCBI Accession #	NP_666148.1
NCBI GenBank Nucleotide #	NM_146036.1
UniProt Accession #	Q8BK64; Q8R3E6
Molecular Weight	38,117 Da
NCBI Official Full Name	activator of 90 kDa heat shock protein ATPase homolog 1
NCBI Official Synonym Full Names	AHA1, activator of heat shock protein ATPase 1
NCBI Official Symbol	Ahsa1
NCBI Official Synonym Symbols	p38; BC023857
NCBI Protein Information	activator of 90 kDa heat shock protein ATPase homolog 1; AHA1, activator of heat shock protein ATPase homolog 1; AHA1, activator of heat shock 90kDa protein ATPase homolog 1
UniProt Protein Name	Activator of 90 kDa heat shock protein ATPase homolog 1
UniProt Gene Name	**Ahsa1**
UniProt Synonym Gene Names	AHA1
UniProt Entry Name	AHSA1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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