

**AHA1 Antibody**  
**AHA1 Antibody, Clone 4H9-D7**  
**Catalog # ASM10146****Specification**

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**AHA1 Antibody - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB, ICC, E                  |
| Primary Accession | <a href="#">O95433</a>      |
| Other Accession   | <a href="#">NP_036243.1</a> |
| Host              | Mouse                       |
| Isotype           | IgG1 Kappa                  |
| Reactivity        | Human, Mouse                |
| Clonality         | Monoclonal                  |

**Description**

Mouse Anti-Human AHA1 Monoclonal IgG1 Kappa

**Target/Specificity**

Detects ~38kDa, can run up to 45kDa on SDS Page. It sees human Aha1, Mouse Aha1 and Mouse Aha2.

**Other Names**

Aha 1 Antibody, Ahsa1 Antibody, p38 Antibody, HSPC322 Antibody, C14orf3 Antibody, Activator of HSP90 ATPase Antibody, Activator of 90 kDa heat shock protein ATPase homolog 1 Antibody

**Immunogen**

Human Aha1, his tagged

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH7.2, 50% glycerol, 0.09% sodium azide

Shipping Temperature

**Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-198 was sufficient for detection of Aha1 in 10 µg of HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Cytoplasm | Endoplasmic Reticulum

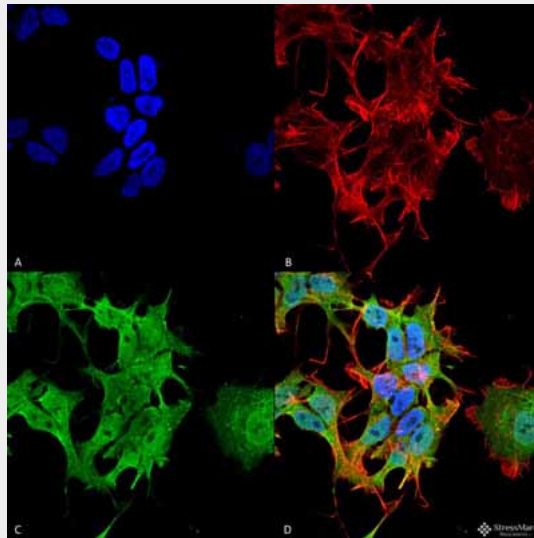
**AHA1 Antibody - Protocols**

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

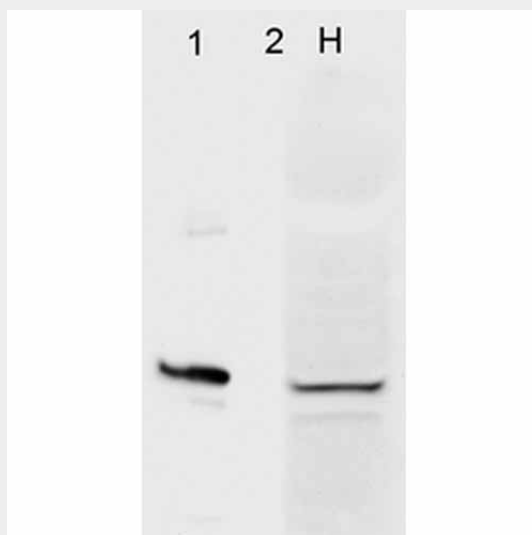
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## AHA1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-AHA1 Monoclonal Antibody, Clone 4H9-D7 (ASM10146). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-AHA1 Monoclonal Antibody (ASM10146) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) AHA1 Antibody (D) Composite.



Western Blot analysis of Human HeLa cell lysates showing detection of Aha1 protein using Mouse Anti-Aha1 Monoclonal Antibody, Clone 4H9.D7 (ASM10146). Primary Antibody: Mouse Anti-Aha1 Monoclonal Antibody (ASM10146) at 1:1000. (1) HeLa cell lysate (2) recombinant Aha1 cell lysate.

## AHA1 Antibody - 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 stomatitis 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).

#### **AHA1 Antibody - 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.