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Trap1 Antibody

TRAP1 Antibody, Clone 3H4-2H6
Catalog # ASM10152

Specification

Trap1 Antibody - Product Information

Application	ICC/IF, WB
Primary Accession	Q12931
Other Accession	NP_057376.2
Host	Mouse
Isotype	IgG1 Kappa
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal

Description
Mouse Anti-Human Trap1 Monoclonal IgG1 Kappa

Target/Specificity
Detects ~75kDa.

Other Names
Heat shock protein 75 Antibody, Heat shock protein 75 kDa Antibody, Heat shock protein 75 kDa mitochondrial Antibody, HSP 75 Antibody, HSP 90L Antibody, HSP75 Antibody, HSP90L Antibody, mitochondrial Antibody, TNF receptor associated protein 1 Antibody, TNFR associated protein 1 Antibody, TNFR-associated protein 1 Antibody, TRAP 1 Antibody, TRAP-1 Antibody, Trap1 Antibody, TRAP1_HUMAN Antibody, Tumor necrosis factor receptor associated protein Antibody, Tumor necrosis factor type 1 receptor associated protein Antibody, Tumor necrosis factor type 1 receptor-associated protein Antibody

Immunogen
Purified recombinant TRAP1

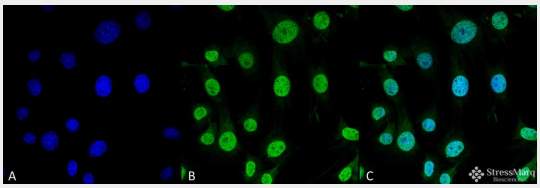
Purification
Protein G Purified

Storage	-20ºC

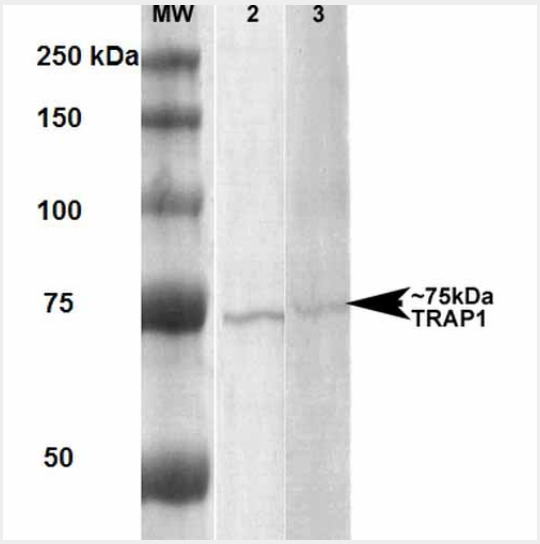
Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature	Blue Ice or 4ºC

Certificate of Analysis



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Trap1 Monoclonal Antibody, Clone 3H4-2H6 (ASM10152). Tissue: Myoblast cell line C2C12 . Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Trap1 Monoclonal Antibody (ASM10152) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Nucleus. Magnification: 60X.



Western Blot analysis of Human, Rat Human A431 and Rat Brain Membrane cell lysates showing detection of ~75 kDa Trap1 protein using Mouse Anti-Trap1 Monoclonal Antibody, Clone 3H4-2H6 (ASM10152). Lane 1: MW ladder. Lane 2: Human lysate, A431. Lane 3: Rat lysate, Rat Brain Membrane (RBM). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Mouse Anti-Trap1 Monoclonal Antibody (ASM10152) at 1:1000

1 µg/ml of SMC-207 was sufficient for detection of Trap-1/HSP75 in 20 µg of Human A431 lysate by ECL immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization
Mitochondrion

Trap1 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

for 1 hour at RT. Secondary Antibody: HRP Goat Anti-Rabbit at 1:2000 for 1 hour at RT. Color Development: TMB solution for 15 min at RT. Predicted/Observed Size: ~75 kDa.

Trap1 Antibody - Background

The 90 kDa heat shock protein (HSP90) family of proteins that play an important physiological role. HSP90 is involved in numerous cellular processes but is best known for its association with signal transduction machinery. A recently cloned homolog of HSP90 is the tumor necrosis factor receptor-associated protein (TRAP1). Like HSP90, TRAP1 is found to be associated with numerous proteins involved in diverse actions (1, 2). Immunofluorescence data has shown TRAP1 to be localized in the mitochondria of mammalian cells. This observation and the fact that TRAP1 is shown to have a mitochondrial targeting pre-sequence strongly implicates TRAP1 as a mitochondrial matrix protein (3).

Trap1 Antibody - References

1. Felts S.J., et al. (2000) J Biol Chem. 275(5): 3305-3312.
2. Costantino E., et al. (2009) Cancer Lett. 279(1): 39-46.
3. Cechetto J.D., Gupta R.S. (2000) Exp Cell Res. 260(1): 30-39.