



BIOCARTAUS
6827 Nancy Ridge Dr
San Diego, CA 92121
Tel 858-200-2037
Fax 858-200-2038
info@biocarta.com
www.biocarta.com

BIOCARTA Europe GmbH
Borsteler Chaussee 53
D-22453 Hamburg, Germany
Tel +49-40-5257030
Fax +49-40-52570377
info.europe@biocarta.com

BIOCARTA Japan KK
Technical Support 0120810723
info@biocarta.co.jp
**Wako Pure Chemical
Industries, Ltd.**
Tel 0120052099
Fax 0120052806
www.wako-chem.co.jp

Heat Shock Protein 75/hsp75/TRAP -1 Ab -2 (Clone TR -1A)

Mouse Monoclonal Antibody

Cat.#04 -10-5818,04 -10-5819,or04 -10-5817(0.1ml,0.5ml,or1.0ml at 200 µg/ml) (Purified Ab with BSA and Azide)

Cat.#04 -10-5820 or 04 -10-5821(0.1ml or 0.2 ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Description: A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (HSP's), more appropriately called stress response proteins (SRP's). The Hsp90 family of proteins in mammalian cells consists of Hsp90 alpha and beta, Grp94, and Trap 1 (Hsp75). It was found that human TRAP -1 is localized to mitochondria and exhibited ATPase activity that was inhibited by both geldanamycin and radicicol indicating that TRAP -1 has functions that are distinct from those of hsp90. It was also found that TRAP-1 had a biochemical activity to refold denatured retinoblastoma protein (Rb) into its native conformation.

Mol. Wt. of Antigen: 75kDa

Epitope: Not determined

Species Reactivity: Human. Others - not known.

Clone Designation: TR -1A

Ig Isotype: IgG2a

Immunogen: Recombinant TRAP -1 protein

Applications and Suggested Dilutions:

- Immunoprecipitation (Denatured verified) (Use Protein A) (Ab 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: HeLa, SKBR -3 or A431 cells

Cellular Localization: cytoplasmic

Supplied As:

200µg/ml of antibody purified from ascites fluid by Protein A chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml,

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Felts S, et al (2000) J Biol Chem, 275:3305-3312.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Biocarta is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.