Datasheet for ABIN968825

anti-TRAP1 antibody (AA 253-464)

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Overview

Quantity:	50 µg
Target:	TRAP1
Binding Specificity:	AA 253-464
Reactivity:	Human, Rat, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Hsp75/TRAP1 aa. 253-464
Clone:	42-Hsp75
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	TRAP1
Alternative Name:	Hsp75 (TRAP1 Products)
Background:	The hsp90 family of molecular chaperones is involved in a number of signal transduction pathways, including cell division, protein folding and transport. A new member of this family was recently identified as TRAP1 (Tumor necrosis factor receptor-associated protein) or hsp75. TRAP1 is a mitochondrial protein that is an ATPase and ATP-binding protein, rendering it similar to hsp90. There is a high degree of homology between TRAP1 and hsp90 in 6 domains, however one major difference is that a highly charged domain present in hsp90 is absent in TRAP1. TRAP1 has been shown to interact with the intracellular domain of the type 1 receptor for tumor necrosis factor (TNFR-1IC) and to the retinoblastoma protein (Rb). Signaling through TNFR-1 induces antiviral responses, fibroblast proliferation, cytotoxicity, etc. TRAP1 binds TNFR-1IC outside of the death domain leading to disruption in the signaling by TNFR-1. Rb has been shown to play a pivotal role in cellular differentiation and progression through the cell cycle. TRAP1 associates with Rb via an LxCxE motif, which is common among proteins that interact with Rb through SV40 T-antigen binding domain. Thus, TRAP1 is a new member of the hsp90 family that interacts with Rb and TNFR-1IC. Synonyms: TRAP1
Molecular Weight:	75 kDa

Application Details

Comment:	Related Products: ABIN967389, ABIN968535
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

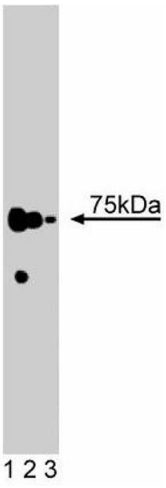
Product cited in:

Felts, Owen, Nguyen, Trepel, Donner, Toft: "The hsp90-related protein TRAP1 is a mitochondrial protein with distinct functional properties." in: **The Journal of biological chemistry**, Vol. 275, Issue 5, pp. 3305-12, (2000) (PubMed).

Chen, Chen, Dai, Chen, Riley, Lee: "A new member of the hsp90 family of molecular chaperones interacts with the retinoblastoma protein during mitosis and after heat shock." in: **Molecular and cellular biology**, Vol. 16, Issue 9, pp. 4691-9, (1996) (PubMed).

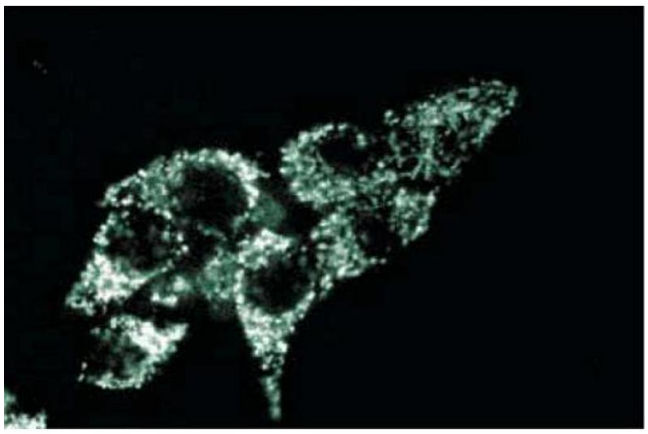
Song, Dunbar, Zhang, Guo, Donner: "Identification of a protein with homology to hsp90 that binds the type 1 tumor necrosis factor receptor." in: **The Journal of biological chemistry**, Vol. 270, Issue 8, pp. 3574-81, (1995) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Hsp75 on HeLa lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of Hsp75.



Immunofluorescence

Image 2. Immunofluorescence staining of HeLa cells.