**BACKGROUND**

The TRAP proteins (translocon-associated proteins), TRAP-α, TRAP-β, TRAP-γ and TRAP-δ, are transmembrane proteins that comprise a heterotetramer complex (the signal sequence receptor (SSR) or TRAP complex) that localizes to the endoplasmic reticulum (ER) and functions in regulating the retention of ER resident proteins. The TRAP complex associates with the Sec61 translocon at the ER. Sec61 is the major complex mediating protein translocation across the ER membrane. In addition, the TRAP complex is involved in ER-associated degradation (ERAD); in response to ER stress the TRAP complex subunits are simultaneously induced by the XB P-1/IRE1 pathway. TRAP-α (also known as SSR1 or SSR-α), TRAP-β (also known as SSR-β, SSR2 or TLAP) and TRAP-δ (also known as SSR4) are all single-pass membrane proteins, while TRAP-γ (also known as SSR3 or SSR-γ) contains four transmembrane domains.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SSR1 (human) mapping to 6p24.3; Ssr1 (mouse) mapping to 13 A3.3.

**SOURCE**

TRAP-α (C-8) is a mouse monoclonal antibody raised against amino acids 1-286 representing full length TRAP-α of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRAP-α (C-8) is available conjugated to agarose (sc-373916 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373916 HRP), 200 µg/ml, for WB, HICP) and ELISA; to either phycoerythrin (sc-373916 PE), fluorescein (sc-373916 FITC), Alexa Fluor® 488 (sc-373916 AF488), Alexa Fluor® 546 (sc-373916 AF546), Alexa Fluor® 594 (sc-373916 AF594) or Alexa Fluor® 647 (sc-373916 AF647), 200 µg/ml, for WB (RGB), IF, HICP and FCM; and to either Alexa Fluor® 680 (sc-373916 AF680) or Alexa Fluor® 790 (sc-373916 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

TRAP-α (C-8) is recommended for detection of TRAP-α of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRAP-α siRNA (h): sc-63153, TRAP-α siRNA (m): sc-63154, TRAP-α shRNA Plasmid (h): sc-63153-SH, TRAP-α shRNA Plasmid (m): sc-63154-SH, TRAP-α shRNA (h) Lentiviral Particles: sc-63153-V and TRAP-α shRNA (m) Lentiviral Particles: sc-63154-V.

Molecular Weight of TRAP-α: 32 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2208, Hep G2 cell lysate: sc-2227 or Neuro-2A whole cell lysate: sc-364185.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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