HAX-1 (B-11): sc-166845

BACKGROUND
HAX-1 (HS1-associated protein X-1 or HS1-binding protein protein X-1), encodes a novel protein. HAX-1 has previously been shown to associate with HS1, a protein specifically expressed in cells of the hematopoietic lineage, and is thought to be involved in signal transduction in B cells and apoptosis. Though first identified as a protein that associates with HS1, recent data has also revealed interactions between HAX-1 and three disparate proteins; Polycystin-2 (derived from the PKD2 gene), a protein linked to polycystic kidney disease, Cortactin and EBNA-LP (Epstein-Barr virus nuclear antigen leader protein). Additionally, HAX-1 has been identified as a binding partner to the carboxy-terminus of the K15 protein of Kaposi's sarcoma-associated herpesvirus. K15 interacts with cellular HAX-1 in vitro and in vivo. Furthermore, HAX-1 co-localizes with K15 in the endoplasmic reticulum and mitochondria. Immunofluorescence experiments show that in most cells PKD2 and HAX-1 co-localize in the cell body, but in some cells PKD2 and HAX-1 also are sorted into cellular processes and lamellipodia. The HAX-1 gene is expressed ubiquitously among tissues. Its protein is localized mainly in mitochondria, but also in endoplasmic reticulum and the nuclear envelope of the cell.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: HAX1 (human) mapping to 1q21.3.

SOURCE
HAX-1 (B-11) is a mouse monoclonal antibody raised against amino acids 1-279 representing full length HAX-1 of human origin.

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

HAX-1 (B-11) is available conjugated to agarose (sc-166845 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166845 HRP), 200 µg/ml, for WB, (IHC) and ELISA; to either phycoerythrin (sc-166845 PE), fluorescein (sc-166845 FITC), Alexa Fluor® 488 (sc-166845 AF488), Alexa Fluor® 546 (sc-166845 AF546), Alexa Fluor® 594 (sc-166845 AF594) or Alexa Fluor® 647 (sc-166845 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PIP) and FCM; and to either Alexa Fluor® 680 (sc-166845 AF680) or Alexa Fluor® 790 (sc-166845 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM. Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

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

APPLICATIONS
HAX-1 (B-11) is recommended for detection of HAX-1 of 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 HAX-1 siRNA (h): sc-43365, HAX-1 shRNA Plasmid (h): sc-43365-SH and HAX-1 shRNA (h) Lentiviral Particles: sc-43365-V.

Molecular Weight of HAX-1: 35 kDa.

Positive Controls: HAX-1 (h): 293T Lysate: sc-113132, A-673 cell lysate: sc-43365-V.

DATA

SELECT PRODUCT CITATIONS

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