

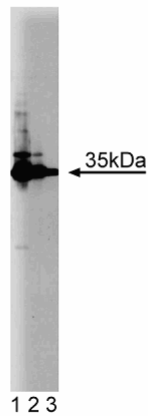
Technical Data Sheet

Purified Mouse Anti-HAX-1**Product Information**

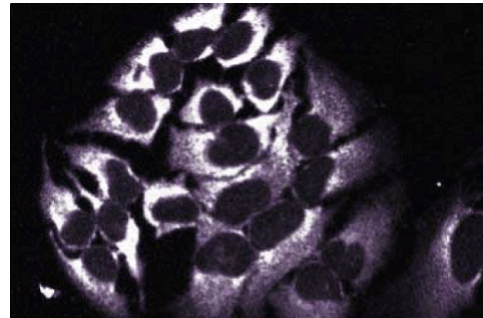
Material Number:	610824
Size:	50 µg
Concentration:	250 µg/ml
Clone:	52/HAX-1
Immunogen:	Human HAX-1 aa. 10-148
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat, Mouse
Target MW:	35 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Cell-cell interactions in the immune system, mediated by membrane-bound antigen receptors, trigger a cascade of signaling mechanisms collectively known as the T-cell response. Upon antigen binding, cellular tyrosine kinases are activated resulting in the phosphorylation of HS1 or Lck-binding protein 1 (LckBP1), which is involved in thymic negative selection. HS1 is one of the earliest intracellular proteins to be tyrosine phosphorylated in response to antigen-receptor cross-linking in T cells. HAX-1 (**HS1-associated protein X-1**) is a 35 kDa protein found associated with HS1 by co-immunoprecipitation assays and the two-hybrid system. HAX-1 is ubiquitously expressed and localized in the mitochondria, endoplasmic reticulum, and the nuclear envelope. The HS1-HAX-1 complex may be critical for signal transduction pathways initiated by antigen presentation to T cells.



Western blot analysis of HAX-1 on Jurkat cell lysate.
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-HAX-1 antibody.



Immunofluorescent staining of HeLa cells with anti-HAX-1 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Suzuki Y, Demoliere C, Kitamura D, Takeshita H, Deuschle U, Watanabe T. HAX-1, a novel intracellular protein, localized on mitochondria, directly associates with HS1, a substrate of Src family tyrosine kinases. *J Immunol.* 1997; 158(6):2736-2744.(Biology)