

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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# HA-1 (h): 293T Lysate: sc-116876



The Power to Question

#### **BACKGROUND**

Major histocompatibility complex (MHC) molecules, which include human leukocyte antigens (HLAs), form an integral part of the immune response system. They are cell-surface receptors that bind foreign peptides and present them to cytotoxic T lymphocytes (CTLs). Minor histocompatibility antigens can form an immune response upon recognition by certain T cells when complexed with MHC molecules. HA-1 (minor histocompatibility protein HA-1), also known as HA-1, HLA-HA1 or HMHA1, is a 1,136 amino acid GTPase activator of Rho-type GTPases. Expressed in dendritic cells, epidermal Langerhans cells, hematopoietic cells, peripheral blood mononuclear cells and all leukemia and lymphoma cell lines, HA-1 is also found in various solid tissues and tumors. Highly phosphorylated, HA-1 contains one Rho-GAP domain, a single phorbolester/DAG-type zinc finger and is encoded by a gene located on human chromosome 19p13.3.

#### **REFERENCES**

- van Els, C.A., et al. 1992. Immunogenetics of human minor histocompatibility antigens: their polymorphism and immunodominance. Immunogenetics 35: 161-165.
- Schreuder, G.M., et al. 1993. A genetic analysis of human minor histocompatibility antigens demonstrates Mendelian segregation independent of HLA. Immunogenetics 38: 98-105.
- 3. Goulmy, E., et al. 1996. Mismatches of minor histocompatibility antigens between HLA-identical donors and recipients and the development of graft-versus-host disease after bone marrow transplantation. N. Engl. J. Med. 334: 281-285.
- den Haan, J.M., et al. 1998. The minor histocompatibility antigen HA-1: a diallelic gene with a single amino acid polymorphism. Science 279: 1054-1057.
- Kaminski, W.E., et al. 2000. Genomic organization of the human cholesterol-responsive ABC transporter ABCA7: tandem linkage with the minor histocompatibility antigen HA-1 gene. Biochem. Biophys. Res. Commun. 278: 782-789.

#### CHROMOSOMAL LOCATION

Genetic locus: HMHA1 (human) mapping to 19p13.3.

#### **PRODUCT**

HA-1 (h): 293T Lysate represents a lysate of human HA-1 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

#### **APPLICATIONS**

HA-1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HA-1 antibodies. Recommended use:  $10-20~\mu$ l per lane.

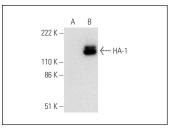
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HA-1 (C-1): sc-393579 is recommended as a positive control antibody for Western Blot analysis of enhanced human HA-1 expression in HA-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

#### **DATA**



HA-1 (C-1): sc-393579. Western blot analysis of HA-1 expression in non-transfected: sc-117752 (**A**) and human HA-1 transfected: sc-116876 (**B**) 293T whole cell

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

#### **RESEARCH USE**

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

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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