

# HARE (P-20): sc-27748

## BACKGROUND

HARE (also designated stabilin-2) is the hyaluronan receptor for endocytosis, which mediates the endocytic clearance of hyaluronan (HA) and chondroitin sulfate from lymph fluid and blood. HARE is expressed in endothelial sinuses of liver, lymph nodes, spleen and bone marrow, and in specialized structures of the eye, heart, brain and kidney. Human and rat HARE each have two isoforms. HARE may serve to maintain tissue integrity by supporting extracellular matrix turnover or it may contribute to maintaining fluidity of bodily liquids by resorption of hyaluronan. When studies of clearance of hyaluronan (HA) and scavenger receptor ligands by liver sinusoidal endothelial cells (LSECs) were performed, stabilin-2 had a clear scavenging profile, stabilin-1 did not.

## REFERENCES

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3. Zhou, B., et al. 2002. Molecular cloning and functional expression of the rat 175-kDa hyaluronan receptor for endocytosis. *Mol. Biol. Cell* 13: 2853-2868.
4. Falkowski, M., et al. 2003. Expression of stabilin-2, a novel fasciclin-like hyaluronan receptor protein, in murine sinusoidal endothelia, avascular tissues, and at solid/liquid interfaces. *Histochem. Cell Biol.* 120: 361-369.
5. Weigel, J.A., et al. 2003. A blocking antibody to the hyaluronan receptor for endocytosis (HARE) inhibits hyaluronan clearance by perfused liver. *J. Biol. Chem.* 278: 9808-9812.
6. Weigel, J.A., et al. 2003. Characterization of the recombinant rat 175-kDa hyaluronan receptor for endocytosis (HARE). *J. Biol. Chem.* 278: 42802-42811.
7. Zhou, B., et al. 2003. Purification and molecular identification of the human hyaluronan receptor for endocytosis. *Glycobiology* 13: 339-349.
8. Harris, E.N., et al. 2004. Endocytic function, glycosaminoglycan specificity, and antibody sensitivity of the recombinant human 190-kDa hyaluronan receptor for endocytosis (HARE). *J. Biol. Chem.* 279: 36201-36209.
9. Hansen, B., et al. 2005. Stabilin-1 and stabilin-2 are both directed into the early endocytic pathway in hepatic sinusoidal endothelium via interactions with clathrin/AP-2, independent of ligand binding. *Exp. Cell Res.* 303: 160-173.

## CHROMOSOMAL LOCATION

Genetic locus: STAB2 (human) mapping to 12q23.3.

## SOURCE

HARE (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of HARE of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-27748 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

HARE (P-20) is recommended for detection of HARE of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HARE (P-20) is also recommended for detection of HARE in additional species, including equine and bovine.

Suitable for use as control antibody for HARE siRNA (h): sc-105433, HARE shRNA Plasmid (h): sc-105433-SH and HARE shRNA (h) Lentiviral Particles: sc-105433-V.

Molecular Weight of HARE isoforms: 190/315 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.