

# HDHD3 (E-19): sc-243002

## BACKGROUND

HDHD3 (haloacid dehalogenase-like hydrolase domain containing 3) is a 251 amino acid protein that belongs to the HAD-like hydrolase superfamily, which contains a group of hydrolase enzymes that differ from the  $\alpha/\beta$  hydrolase family based on structure. This family of hydrolase enzymes includes L-2-haloacid dehalogenase, epoxide hydrolases and phosphatases. HDHD3 is encoded by a gene located on human chromosome 9q32. Chromosome 9 consists of about 145 million bases, 4% of the human genome and encodes nearly 900 genes. Thought to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype.

## REFERENCES

1. Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. *Nature* 429: 369-374.
2. Coppo, P., et al. 2006. BCR-ABL activates STAT3 via JAK and MEK pathways in human cells. *Br. J. Haematol.* 134: 171-179.
3. Zheng, X., et al. 2006. BCR and its mutants, the reciprocal t(9;22)-associated ABL/BCR fusion proteins, differentially regulate the cytoskeleton and cell motility. *BMC Cancer* 7: 262.
4. Burmeister, T., et al. 2007. Atypical BCR-ABL mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.

## CHROMOSOMAL LOCATION

Genetic locus: HDHD3 (human) mapping to 9q32.

## SOURCE

HDHD3 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HDHD3 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243002 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

HDHD3 (E-19) is recommended for detection of HDHD3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with HDHD2.

Suitable for use as control antibody for HDHD3 siRNA (h): sc-92556, HDHD3 shRNA Plasmid (h): sc-92556-SH and HDHD3 shRNA (h) Lentiviral Particles: sc-92556-V.

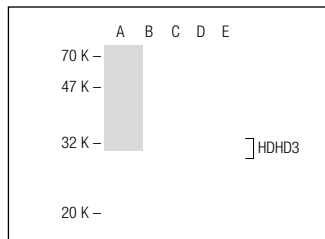
Molecular Weight of HDHD3: 28 kDa.

Positive Controls: HDHD3 (m): 293T Lysate: sc-125436, Hep G2 cell lysate: sc-2227 or MCF7 whole cell lysate: sc-2206.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



HDHD3 (E-19): sc-243002. Western blot analysis of HDHD3 expression in non-transfected 293T: sc-117752 (A), mouse HDHD3 transfected 293T: sc-125436 (B), MCF7 (C), LNCaP (D) and Hep G2 (E) whole cell lysates.

## 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.

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Try **HDHD3 (C-1): sc-377141**, our highly recommended monoclonal alternative to HDHD3 (E-19).