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HOPX Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11455b

Specification

HOPX Antibody (C-term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q9BPY8
Other Accession	NP_001138931.1, NP_631957.1, NP_115884.4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**39-67**

HOPX Antibody (C-term) - Additional Information

Gene ID 84525

Other Names
Homeodomain-only protein, Lung cancer-associated Y protein, Not expressed in choriocarcinoma protein 1, Odd homeobox protein 1, HOPX, HOD, HOP, LAGY, NECC1, OB1

Target/Specificity
This HOPX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-67 amino acids from the C-terminal region of human HOPX.

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HOPX Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HOPX Antibody (C-term) - Protein Information

Name HOPX

Synonyms HOD, HOP, LAGY, NECC1, OB1

Function Atypical homeodomain protein which does not bind DNA and is required to modulate cardiac growth and development. Acts via its interaction with SRF, thereby modulating the expression of SRF- dependent cardiac-specific genes and cardiac development. Prevents SRF-dependent transcription either by inhibiting SRF binding to DNA or by recruiting histone deacetylase (HDAC) proteins that prevent transcription by SRF. Overexpression causes cardiac hypertrophy (By similarity). May act as a tumor suppressor. Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and assists in chaperone-mediated protein refolding (PubMed:27708256).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q8R1H0}. Cytoplasm {ECO:0000250|UniProtKB:Q8R1H0}

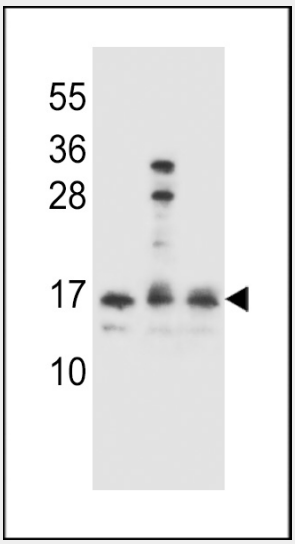
Tissue Location
Widely expressed. Expressed in the heart, brain, placenta, lung, skeletal and smooth muscles, uterus, urinary bladder, kidney and spleen. Down-regulated in some types of cancer such as lung cancer, choriocarcinoma, head and neck squamous cell carcinoma and oral squamous cell carcinoma.

HOPX Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

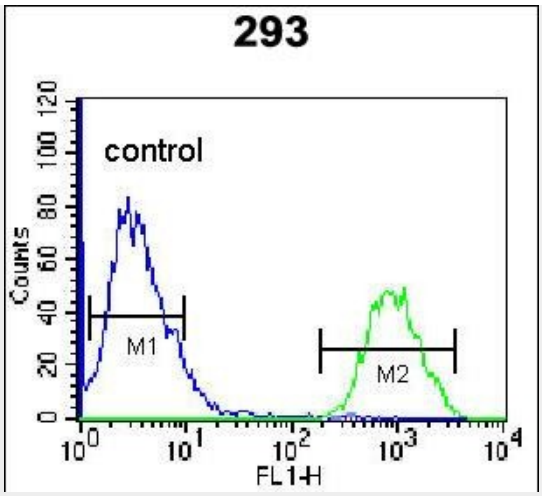
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HOPX Antibody (C-term) - Images



HOPX Antibody (C-term) (Cat. #AP11455b) western blot analysis in Ramos,A2058,293 cell line lysates (35ug/lane).This demonstrates the HOPX antibody detected the HOPX protein (arrow).

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HOPX Antibody (C-term) (Cat. #AP11455b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

HOPX Antibody (C-term) - Background

The protein encoded by this gene is a homeodomain protein that lacks certain conserved residues required for DNA binding. It was reported that choriocarcinoma cell lines and tissues failed to express this gene, which suggested the possible involvement of this gene in malignant conversion of placental trophoblasts. Studies in mice suggest that this protein may interact with serum response factor (SRF) and modulate SRF-dependent cardiac-specific gene expression and cardiac development. Multiple alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq].

HOPX Antibody (C-term) - References

Yang, J.M., et al. Eur. J. Cell Biol. 89(7):537-546(2010)
Ooki, A., et al. Oncogene 29(22):3263-3275(2010)
Yamaguchi, S., et al. Int. J. Cancer 124(11):2577-2588(2009)
Yamashita, K., et al. Mol. Cancer Res. 6(1):31-41(2008)
De Toni, A., et al. Neural Dev 3, 13 (2008) :

HOPX Antibody (C-term) - Citations

- Downregulation of HOPX controls metastatic behavior in sarcoma cells and identifies genes associated with metastasis.