

**HOPX Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11455b****Specification**

---

**HOPX Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q9BPY8](#)**HOPX Antibody (C-term) Blocking peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HOPX Antibody (C-term) Blocking peptide - 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:&lt;a href="http://www.uniprot.org/citations/27708256" target="\_blank"&gt;27708256&lt;/a&gt;).

**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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **HOPX Antibody (C-term) Blocking peptide - Images**

### **HOPX Antibody (C-term) Blocking peptide - 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) Blocking peptide - 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) :