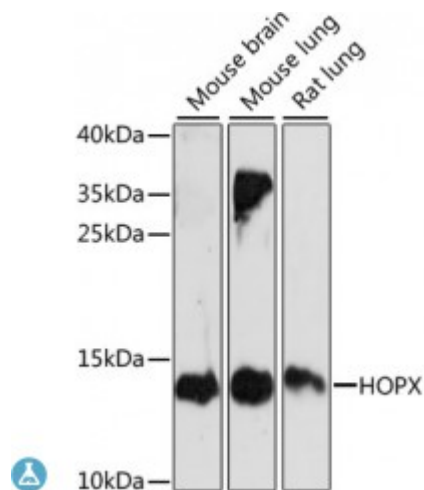


Anti-HOPX Antibody



Description

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.

Model	STJ117732
Host	Rabbit
Reactivity	Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-73 of human HOPX (NP_631957.1).
Gene ID	84525
Gene Symbol	HOPX
Dilution range	WB 1:200 - 1:2000
Tissue Specificity	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
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Homeodomain-only protein Lung cancer-associated Y protein Not expressed in choriocarcinoma protein 1 Odd homeobox protein 1
Molecular Weight	8.26 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:24961OMIM:607275
Alternative Names	Homeodomain-only protein Lung cancer-associated Y protein Not expressed in choriocarcinoma protein 1 Odd homeobox protein 1
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 , May act as a tumor suppressor, Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and assists in chaperone-mediated protein refolding ,
Cellular Localization	Nucleus