Rabbit anti-Human, Mouse HOP Polyclonal Antibody | anti-HOPX antibody

HOP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323435	**Rabbit**	**Human, Mouse**	**ELISA, Immunohistochemistry, Western Blot**

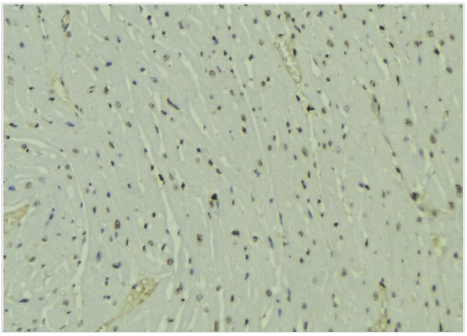
PRODUCT SYNONYMS

HOP; Polyclonal Antibody; HOP Antibody; CAMEO; heart odd homeobox 1 protein; HOD; Homeodomain-only protein; HOP homeobox; HOP_HUMAN; HOPX; LAGY; Lung cancer-associated Y protein; NECC1; Not expressed in choriocarcinoma clone 1; Not expressed in choriocarcinoma protein 1; OB1; odd homeobox 1 protein; Odd homeobox protein 1; OTTHUMP00000158970; SMAP31; TOTO; anti-HOPX antibody

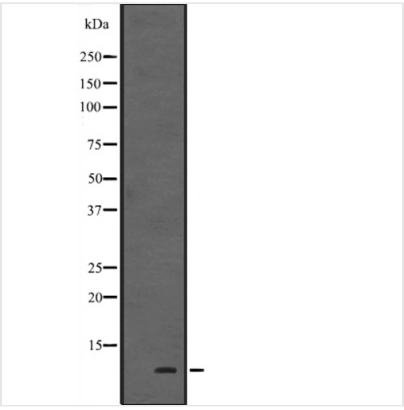
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	HOP antibody detects endogenous levels of total HOP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	73
Applicable Applications for anti-HOPX antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
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.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Rabbit, Dog, Chicken**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated

IMAGES



IHC (Immunohiostchemistry)
AAA323435 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of HOP expression in Human fetal heart tissue lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HOPX antibody	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). Subunit Structure: Interacts with serum response factor (SRF). Component of a large complex containing histone deacetylases such as HDAC2 (By similarity). Interacts with the acetylated forms of HSPA1A and HSPA1B. Interacts with HSPA8 (PubMed:27708256).

NCBI AND UNIPROT INFORMATION

NCBI GI #	224451023
NCBI GeneID	84525
NCBI Accession #	NP_001138931.1
NCBI GenBank Nucleotide #	NM_001145459.1
UniProt Accession #	Q9BPY8; Q8N0V6; Q96CI1; A8K0Z2; E9PB55; G3V294
Molecular Weight	Observed: 8 kDa Predicted: 9 kDa
NCBI Official Full Name	homeodomain-only protein isoform b
NCBI Official Synonym Full Names	HOP homeobox
NCBI Official Symbol	HOPX
NCBI Official Synonym Symbols	HOD; HOP; OB1; LAGY; TOTO; CAMEO; NECC1; SMAP31
NCBI Protein Information	homeodomain-only protein
UniProt Protein Name	Homeodomain-only protein
UniProt Gene Name	**HOPX**
UniProt Synonym Gene Names	HOD; HOP; LAGY; NECC1; OB1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.