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NKX1-2 Rabbit pAb

Catalog # AP97003

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P42580
Other Accession	P42580
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32013
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse NKX1-2
Epitope Specificity	1-100/310
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the NK-1 homeobox family. Contains 1 homeobox DNA-binding domain.
Post-translational modifications	Phosphorylated by HIPK2 in vitro.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NKX1-2 (NK1 Homeobox 2) is a Protein Coding gene. GO annotations related to this gene include sequence-specific DNA binding. An important paralog of this gene is NKX1-1.

Additional Information

Gene ID	20231
Other Names	C10orf121; NKX-1.1; SAX1; bB238F13.2; Nkx-1.2; NKX12_HUMAN; NKX1-2; Homeobox protein SAX-1; NKX1.1; NKX12_MOUSE; NK1 homeobox 2; chromosome 10 open reading frame 121; NK1 transcription factor related, locus 2 (Drosophila)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Nkx1-2
Synonyms	Nkx1.1, Sax1 {ECO:0000303|PubMed:7669696
Function	Transcriptional repressor (Probable). May play a role in early development as a Wnt/beta-catenin effector, hence controlling pluripotency and preimplantation development of embryonic stem cells (PubMed:38701778). May promote adipogenesis in mesenchymal stem cells, possibly by inhibiting the expression of the antiadipogenic factor NR2F2 (PubMed:31615896). May inhibit osteoblastogenic differentiation (PubMed:31615896).
Cellular Location	Nucleus. Nucleus, nucleolus. Note=In the very first hours following fertilization, at 0.5 dpc, found exclusively in the maternal pronucleus. Specifically localizes to the nucleoli of oocytes and preimplantation embryos.
Tissue Location	Expression detected in the brain, testis and spleen. In the testis, expressed in the germ cells of the seminiferous epithelium, predominantly in elongating spermatids and spermatozoa Expressed throughout the brain with highest levels in regions of the cerebral cortex, hippocampus, diencephalon, pons, medulla and cerebellum.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.