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MESP1 Rabbit pAb

Catalog # AP96739

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BRJ9
Other Accession	Q9BRJ9
Reactivity	Rat, Mouse
Predicted	Pig, Human, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28501
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MESP1
Epitope Specificity	101-200/268
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 basic helix-loop-helix (bHLH) domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MESP1, also known as bHLHc5, is a 268 amino acid protein that contains one basic helix-loop-helix (bHLH) domain, a motif that mediates protein dimerization and can bind to the E-box sequence of DNA. Localized to the nucleus, MESP1 functions as a transcription factor that, via its bHLH domain, participates in the epithelialization and the development of the cardiac and somitic mesoderm. MESP1 is highly expressed during gastrulation and somitogenesis and is necessary for the formation of single heart tubes during cardiac maturation. Early detection of MESP1 may be an indicator of the formation of cardiac precursor cells in developing embryos. Additionally, MESP1 plays a role in the rostrocaudal patterning of the somites, an event that influences select Notch signaling pathways.

Additional Information

Gene ID	55897
Other Names	bHLHc5; MESP1_HUMAN; MESP1; Class C basic helix-loop-helix protein 5 (bHLHc5); mesoderm posterior bHLH transcription factor 1; mesoderm posterior 1 homolog (mouse); mesoderm posterior basic helix-loop-helix transcription factor 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	MESP1
Synonyms	BHLHC5
Function	Transcription factor. Plays a role in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm. Defines the rostrocaudal patterning of the somites by participating in distinct Notch pathways (By similarity).
Cellular Location	Nucleus.

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