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SCXA Rabbit pAb

Catalog # AP99706

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q7RTU7
Other Accession	Q7RTU7
Reactivity	Rat
Predicted	Human, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21596
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SCXA
Epitope Specificity	131-201/201
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.
SUBUNIT	Efficient DNA binding requires dimerization with another bHLH protein. Dimerizes and binds the E-box consensus sequence with E12 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Transcription factors are proteins that bind DNA adjacent to genes and control the production of mRNA transcripts. Scleraxis (basic helix-loop-helix transcription factor scleraxis) is a 201 amino acid protein that dimerizes with another bHLH protein to initiate transcription. Scleraxis is known to play a role in formation of mesoderm and somite-derived chondrogenic lineages. Scleraxis localizes to the nucleus and contains 1 bHLH domain. bHLH transcription factors, in general, function in cellular differentiation, proliferation, and oncogene regulation. The gene encoding Scleraxis maps to human chromosome 8, which consists of nearly 146 million base pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

Additional Information

Gene ID	642658
Other Names	SCX; bHLHa41; SCXA; SCXB; bHLHa48; Scl; SCX_HUMAN; Class A basic helix-loop-helix protein 41 (bHLHa41); Class A basic helix-loop-helix protein 48 (bHLHa48); SCX_MOUSE; scleraxis bHLH transcription factor; scleraxis homolog A (mouse); scleraxis homolog B (mouse); scleraxis homolog (mouse); scleraxis basic helix-loop-helix transcription factor

Dilution	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	SCX
Synonyms	BHLHA41, BHLHA48, SCXA, SCXB
Function	Plays an early essential role in mesoderm formation, as well as a later role in formation of somite-derived chondrogenic lineages.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

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