SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-SCXA/FITC Conjugated antibody

Catalog Number: SL12364R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SCXA/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human SCXA/Scleraxis
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Chicken,Dog,Cow,Horse)
Background:	background: 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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: Plays an early essential role in mesoderm formation, as well as a later role in formation of somite-derived chondrogenic lineages. **Subunit:** Efficient DNA binding requires dimerization with another bHLH protein. Dimerizes and binds the E-box consensus sequence with E12 (By similarity). **Subcellular Location:** Nucleus. **Similarity:** Contains 1 basic helix-loop-helix (bHLH) domain. **Database links:** **Entrez Gene:** 100129885 Human **Entrez Gene:** 642658 Human **Entrez Gene:** 20289 Mouse GenBank: GC08P145397 Human **SwissProt:** Q7RTU7 Human **SwissProt:** Q64124 Mouse **Unigene:** 553250 Human **Unigene:** 723088 Human **Unigene:** 322821 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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