bs-12364R **[Primary Antibody]**

SCXA Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 100129885 **SWISS:** Q7RTU7

Target: SCXA

Immunogen: KLH conjugated synthetic peptide derived from human SCXA: 131-201/201.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

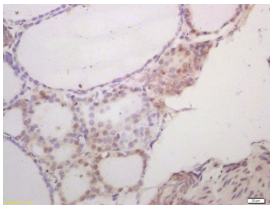
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Rat (predicted: Human, Mouse, Cow, Chicken, Dog, Horse)

Predicted MW.: 22 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Tissue/cell: rat thyroid gland; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-SCXA Polyclonal Antibody, Unconjugated(bs-12364R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=19]** Xuan Yao. et al. Dual Dynamic Crosslinked Hydrogel Patch Embodied with Anti-Bacterial and Macrophage Regulatory Properties for Synergistic Prevention of Peritendinous Adhesion. ADV FUNCT MATER. 2024 May;:2400660 IF

;Rat. 10.1002/adfm.202400660

- **[IF=17.1]** Lu Tan. et al. Mechanically Robust Hemostatic Hydrogel Membranes with Programmable Strain-Adaptive Microdomain Entanglement for Wound Treatment in Dynamic Tissues. ACS NANO. 2024;XXXX(XXX):XXX-XXX IHC ;Rat. 38457334
- **[IF=15.1]** Jiu-Jiu Zhang. et al. Harnessing Mechanical Stress with Viscoelastic Biomaterials for Periodontal Ligament Regeneration. ADV SCI. 2024 Mar;:2309562 IF ;Human. 38460171
- **[IF=10]** Qiao Yang. et al. Coaxial Electrospun Nanofibrous Membranes as Dual-Functional Biomimetic Tendon Sheath for Tendon Repair and Anti-Peritendinous Adhesion. ADV HEALTHC MATER. 2024 Nov;:2402074 WB ;Rat. 39600050
- **[IF=10]** Wanqing Lun. et al. Fabrication of MnO2-Modified Decellularized Tendon Membrane for Enhancing Tendon Repair. ADV HEALTHC MATER. 2024 Nov;:2402584 IHC,IF ;Rat. 39491818