BOSTER BIOLOGICAL TECHNOLOGY
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Anti-CHX10/VSX2 Antibody Picoband®

Catalog Number: A05180

About VSX2

Visual system homeobox 2 is a protein that in humans is encoded by the VSX2 gene. This gene encodes a homeobox protein originally described as a retina-specific transcription factor. Mutations in this gene are associated with microphthalmia, cataracts and iris abnormalities. In situ hybridization to human fetal retinal sections detected CHX10 expression in retinal neuroblasts at all stages examined. Human CHX10 is expressed in progenitor cells of the developing neuroretina and in the inner nuclear layer of the mature retina.

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Overview

Product Name	Anti-CHX10/VSX2 Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CHX10/VSX2 Antibody Picoband® catalog # A05180. Tested in WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P58304

Technical Details

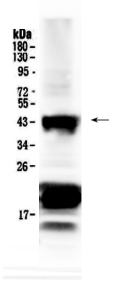
Immunogen	E. coli-derived human CHX10 recombinant protein (Position: A249-A361). Human CHX10 shares 90.3% amino acid (aa) sequence identity with mouse CHX10.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Mouse, Human

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Anti-CHX10/VSX2 Antibody Picoband® (A05180) Images



Western blot analysis of CHX10 using anti-CHX10 antibody (A05180). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse eye ball tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CHX10 antigen affinity purified polyclonal antibody (Catalog # A05180) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CHX10 at approximately 43KD. The expected band size for CHX10 is at 39KD.

Anti-CHX10/VSX2 Antibody

For Research Use Only. Not for use in diagnostic procedures.