

CHRAC1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55345

Specification

CHRAC1 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Bovine
Host
Clonality
Calculated MW
Rat, Bovine
Rabbit
Polyclonal
14 KDa

Physical State
Liquid
Immunogen
KLH conjugated synthetic peptide derived

from human CHRAC1

Epitope Specificity 1-100/131

Isotype IgG Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus.

Important Note

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

Background Descriptions

affinity purified by Protein A

DNA replication is initiated by the binding of initiation factors to the origin of replication. Nucleosomes inhibit access to the replication machinery at these origin sequences. Nucleosome remodeling factors increase the accessibility of nucleosomal DNA to transcriptional regulators (1). CHRAC15 and CHRAC17 are subunits of the nucleosomal remodeling factor CHRAC (chromatin accessibility complex), which increases the accessibility of nucleosomal DNA in an ATP-dependent manner (2). Unlike other known chromatin remodelling factors, CHRAC also functions during chromatin assembly by using ATP to convert irregular chromatin into a regular array of nucleosomes with even spacing (3). This conversion process occurs when CHRAC organizes randomly deposited histones into a regularly spaced array (4). In the presence of CHRAC, the nucleosomal ATPase ISWI catalyses several ATP-dependent transitions of chromatin structure (5).

CHRAC1 Polyclonal Antibody - Additional Information

Gene ID 54108

Other Names

Chromatin accessibility complex protein 1, CHRAC-1, Chromatin accessibility complex 15 kDa protein, CHRAC-15, HuCHRAC15, DNA polymerase epsilon subunit p15, CHRAC1, CHRAC15

Target/Specificity

Expressed in all tissues tested, including, heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.



Dilution

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.

CHRAC1 Polyclonal Antibody - Protein Information

Name CHRAC1

Synonyms CHRAC15

Function

Forms a complex with DNA polymerase epsilon subunit POLE3 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome remodeling activity of ISWI/SNF2H and ACF1. Does not enhance nucleosome sliding activity of the ACF-5 ISWI chromatin remodeling complex (PubMed:14759371).

Cellular Location

Nucleus.

Tissue Location

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

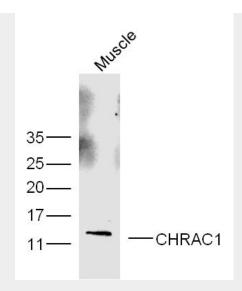
CHRAC1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

CHRAC1 Polyclonal Antibody - Images



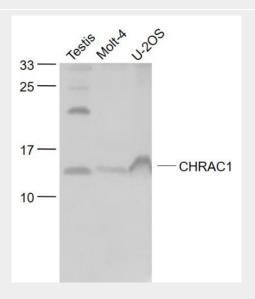


Sample: muscle (Mouse) Lysate at 40 ug

Primary: Anti-CHRAC1(bs-13924R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 14 kD Observed band size: 13 kD



Sample:

Testis (Mouse) Lysate at 40 ug Molt-4(Human) Cell Lysate at 30 ug U-2OS(Human) Cell Lysate at 30 ug

Primary: Anti- CHRAC1 (bs-13924R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 14 kD Observed band size: 14 kD