10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHRAC1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55345

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9NRG0
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14711
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHRAC1
Epitope Specificity	1-100/131
Isotype	IgG
Purity	affinity purified by Protein A
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	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).

Additional Information

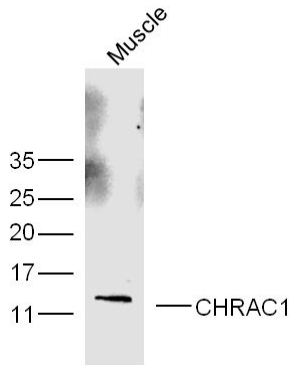
Gene ID	54108
Other Names	Chromatin accessibility complex protein 1, CHRAC-1, Chromatin accessibility complex 15 kDa protein, CHRAC-15, HuCHRAC15, DNA polymerase epsilon subunit p15, CHRAC1, CHRAC15
Target/Specificity	Expressed in all tissues tested, including, heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

	0,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

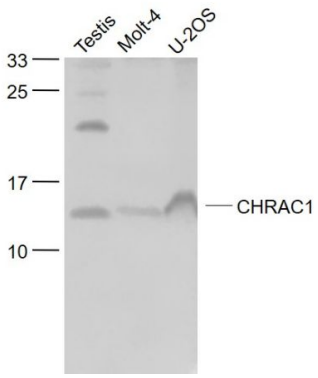
Protein Information

Name	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.

Images



Sample: muscle (Mouse) Lysate at 40 ug
Primary: Anti-CHRAC1(AP55345) 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 (AP55345) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 14 kD
Observed band size: 14 kD