

Naca Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57341**Specification****Naca Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	E9PAV3
Reactivity	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	229 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Alpha-NAC, muscle-specific form
Epitope Specificity	121-215/215
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	Cytoplasm. Nucleus. Predominantly cytoplasmic. Also found in nucleus.
SIMILARITY	Belongs to the NAC-alpha family. Contains 1 NAC-A/B (NAC-alpha/beta) domain. Contains 1 UBA domain.
SUBUNIT	Interacts (via PXLXP motif) with the muscle-restricted histone methyltransferase SMYD1 (via MYND-type zinc finger).
Post-translational modifications	Phosphorylation of Ser-43 by ILK during cell adhesion may promote nuclear localization. Phosphorylation of Thr-159 by GSK3B may promote proteasome mediated degradation (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The protein encoded by this gene associates with basic transcription factor 3 (BTF3) to form the nascent polypeptide-associated complex (NAC). NAC binds to nascent proteins as they emerge from the ribosome, blocking interaction with the signal recognition particle (SRP) and preventing mistranslocation to the endoplasmic reticulum. However, nascent proteins with an exposed signal peptide will not be bound by the encoded protein, enabling them to bind the SRP and enter the secretory pathway. This protein has been determined to be an IgE autoantigen in atopic dermatitis patients. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Naca Polyclonal Antibody - Additional Information

Gene ID 4666

Other Names

Nascent polypeptide-associated complex subunit alpha, muscle-specific form, Alpha-NAC, muscle-specific form, skNAC, NACA

Target/Specificity

Ubiquitously expressed.

Dilution

IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

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.

Naca Polyclonal Antibody - Protein Information

Name NACA

Function

Cardiac- and muscle-specific transcription factor. May act to regulate the expression of genes involved in the development of myotubes. Plays a critical role in ventricular cardiomyocyte expansion and regulates postnatal skeletal muscle growth and regeneration. Involved in the organized assembly of thick and thin filaments of myofibril sarcomeres (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P70670}. Nucleus {ECO:0000250|UniProtKB:P70670}

Naca Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Naca Polyclonal Antibody - Images