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

NC2 alpha Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57368

Specification

NC2 alpha Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q14919
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**22 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human NC2 alpha**
Epitope Specificity	**101-200/205**
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**
SIMILARITY	**Belongs to the NC2 alpha/DRAP1 family. Contains 1 histone-fold domain.**
SUBUNIT	**Heterodimer with DR1. Binds BTAF1.**
Post-translational modifications	**Phosphorylation reduces DNA binding, but has no effect on heterodimerization and TBP binding.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Transcriptional repression is a general mechanism for regulating transcriptional initiation in organisms ranging from yeast to humans. Accurate initiation of transcription from eukaryotic protein-encoding genes requires the assembly of a large multiprotein complex consisting of RNA polymerase II and general transcription factors such as TFIIA, TFIIB, and TFIID. DR1 is a repressor that interacts with the TATA-binding protein (TBP) of TFIID and prevents the formation of an active transcription complex by precluding the entry of TFIIA and/or TFIIB into the preinitiation complex. The protein encoded by this gene is a corepressor of transcription that interacts with DR1 to enhance DR1-mediated repression. The interaction between this corepressor and DR1 is required for corepressor function and appears to stabilize the TBP-DR1-DNA complex. [provided by RefSeq, Jul 2008]

NC2 alpha Polyclonal Antibody - Additional Information

Gene ID 10589

Other Names

Dr1-associated corepressor, Dr1-associated protein 1, Negative cofactor 2-alpha, NC2-alpha, DRAP1

Target/Specificity
Ubiquitous. Highly expressed in adult testis, heart, skeletal muscle, pancreas and brain, and in fetal brain, liver and kidney.

Dilution
WB~~1:1000<br \>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 ℃ 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 ℃.

NC2 alpha Polyclonal Antibody - Protein Information

Name DRAP1

Function
The association of the DR1/DRAP1 heterodimer with TBP results in a functional repression of both activated and basal transcription of class II genes. This interaction precludes the formation of a transcription-competent complex by inhibiting the association of TFIIA and/or TFIIB with TBP. Can bind to DNA on its own.

Cellular Location
Nucleus.

Tissue Location
Ubiquitous. Highly expressed in adult testis, heart, skeletal muscle, pancreas and brain, and in fetal brain, liver and kidney.

NC2 alpha 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 Cytomety
- Cell Culture

NC2 alpha Polyclonal Antibody - Images

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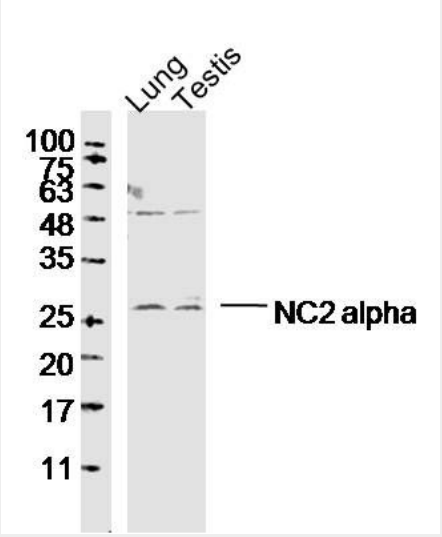

Sample:
Lung (Mouse) Lysate at 40 ug
Testis (Mouse) Lysate at 40 ug
Primary: Anti- NC2 alpha (bs-19041R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22kD
Observed band size: 26kD