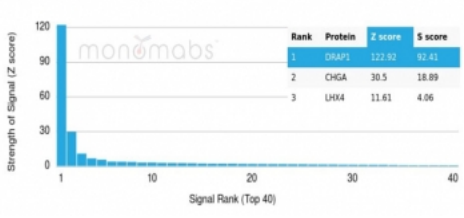
NC2 alpha Antibody / DRAP1 [clone PCRP-DRAP1-1A12] (V4172)

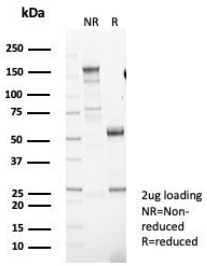
Catalog No.	Formulation	Size
V4172-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4172-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4172SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

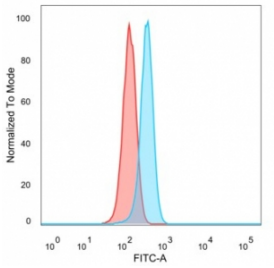
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PCRP-DRAP1-1A12
Purity	Protein A/G affinity
UniProt	Q14919
Localization	Nucleus, Cytoplasm
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This NC2 alpha antibody is available for research use only.



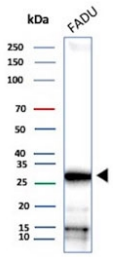
Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using NC2 alpha antibody (clone PCRP-DRAP1-1A12). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



SDS-PAGE analysis of purified, BSA-free NC2 alpha antibody (clone PCRP-DRAP1-1A12) as confirmation of integrity and purity.



Flow cytometry testing of PFA-fixed human HeLa cells with NC2 alpha antibody (clone PCRP-DRAP1-1A12) followed by goat anti-mouse IgG-CF488 (blue); Red = unstained cells.



Western blot testing of human FADU cell lysate with NC2 alpha antibody. Predicted molecular weight ~22 kDa, commonly observed at 26-30 kDa.

Description

NC2 (negative cofactor 2) is a dimeric histone-fold complex that represses RNA polymerase II transcription through binding to TBP and inhibiting the transcription factors TFIIA and TFIIB. NC2 consists of two subunits, termed NC2a and NC2beta, and these subunits dimerize and bind to TBP-promoter complexes via histone fold domains of the H2A-H2B type. NC2 associates with promoters in a manner that correlates with transcriptional activity and with occupancy by basal transcription factors. NC2 binds directly to DNA, and the binding of NC2 to TBP-promoter complexes affects the conformation of DNA, and results in the inhibition of TFIIB.

Application Notes

Optimal dilution of the NC2 alpha antibody should be determined by the researcher.

Immunogen

Recombinant human protein was used as the immunogen for the NC2 alpha antibody.

Storage

Aliquot the NC2 alpha antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.