

Anti-NACA1 Antibody

Catalog # AP60941

Product Information

Application	WB, IF/IC
Primary Accession	Q13765
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23384

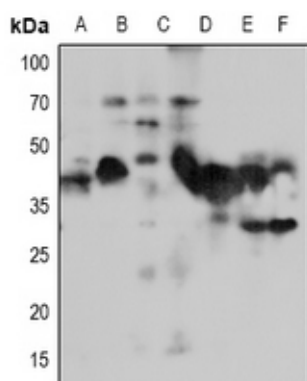
Additional Information

Gene ID	4666
Other Names	Nascent polypeptide-associated complex subunit alpha; NAC-alpha; Alpha-NAC; allergen Hom s 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NACA1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

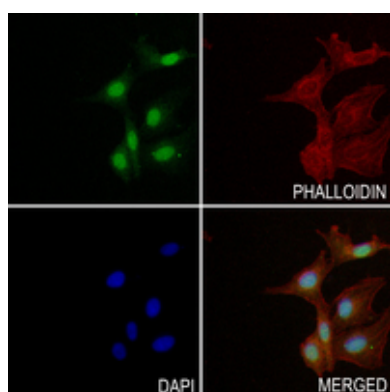
Protein Information

Name	NACA
Function	Prevents inappropriate targeting of non-secretory polypeptides to the endoplasmic reticulum (ER). Binds to nascent polypeptide chains as they emerge from the ribosome and blocks their interaction with the signal recognition particle (SRP), which normally targets nascent secretory peptides to the ER. Also reduces the inherent affinity of ribosomes for protein translocation sites in the ER membrane (M sites). May act as a specific coactivator for JUN, binding to DNA and stabilizing the interaction of JUN homodimers with target gene promoters.
Cellular Location	Cytoplasm. Nucleus. Note=The heterodimer is located mainly in the cytosol, and the homodimer in the nucleus.
Tissue Location	Ubiquitously expressed.

Images



Western blot analysis of NACA1 expression in HeLa (A), HEK293T (B), Jurkat (C), NIH3T3 (D), CT26 (E), H9C2 (F), PC12 (G) whole cell lysates. (Predicted band size: 23 kD; Observed band size: 40 kD)



Immunofluorescent analysis of NACA1 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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