

CHAC1 Rabbit pAb

Catalog # AP98359

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BUX1
Other Accession	Q9BUX1
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24418
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHAC1
Epitope Specificity	131-264/264
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	elongs to the chaC family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Pro-apoptotic component of the unfolded protein response pathway. May mediate the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade.

Additional Information

Gene ID	79094
Other Names	1810008K03Rik; RGD1307153; CHAC1_HUMAN; CHAC1; Gamma-GCG 1; Blocks Notch protein (Botch); Cation transport regulator-like protein 1; 4.3.2.7; BOTCH; CHAC1_MOUSE; CHAC1_RAT; Neuroprotective protein 7; Npg7; ChaC glutathione specific gamma-glutamylcyclotransferase 1; ChaC, cation transport regulator homolog 1 (E. coli); gamma-GCT acting on glutathione homolog 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	CHAC1 {ECO:0000303 PubMed:19109178, ECO:0000312 HGNC:HGNC:28680}
Function	Catalyzes the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly

dipeptide. Acts specifically on glutathione, but not on other gamma-glutamyl peptides (PubMed:[27913623](#)). Glutathione depletion is an important factor for apoptosis initiation and execution. Acts as a pro-apoptotic component of the unfolded protein response pathway by mediating the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade (PubMed:[19109178](#)). Negative regulator of Notch signaling pathway involved in embryonic neurogenesis: acts by inhibiting Notch cleavage by furin, maintaining Notch in an immature inactive form, thereby promoting neurogenesis in embryos (PubMed:[22445366](#)).

Cellular Location

Cytoplasm, cytosol. Golgi apparatus, trans-Golgi network
{ECO:0000250|UniProtKB:Q8R3J5}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.