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CHAC1 Rabbit pAb

Catalog # AP98359

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BUX1
Other Accession	Q9BUX1
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog
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'.