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Anti-CHAC1 Antibody

Catalog # AP51743

Product Information

Application	WB
Primary Accession	Q9BUX1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24418

Additional Information

Gene ID	79094
Other Names	BOTCH; Cation transport regulator-like protein 1; Blocks Notch protein; Botch
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CHAC1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
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

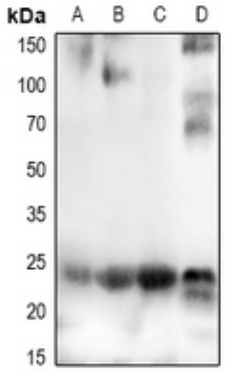
Protein Information

Name	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}

References

Zody M.C.,et al.Nature 440:671-675(2006).
Zheng J.M.,et al.Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
Mungrue I.N.,et al.J. Immunol. 182:466-476(2009).
Chi Z.,et al.Dev. Cell 22:707-720(2012).

Images



Western blot analysis of CHAC1 expression in A549 (A), Hela (B), mouse spleen (C), rat spleen (D) whole cell lysates. (Predicted band size: 24 kD; Observed band size: 24 kD)

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