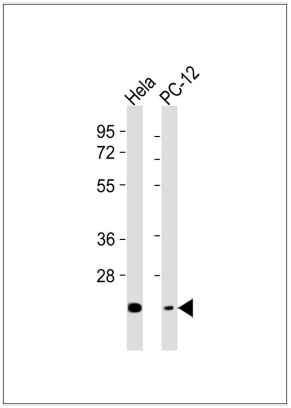
CHAC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHAC1, Polyclonal Antibody
Full Product Name	CHAC1 Antibody
Product Gene Name	anti-CHAC1 antibody
Product Synonym Names	Glutathione-specific gamma-glutamylcyclotransferase 1; Gamma-GCG 1; 232-; Blocks Notch protein; Botch; Cation transport regulator-like protein 1; CHAC1 {ECO:0000303|PubMed:19109178; ECO:0000312|HGNC:HGNC:28680}
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, mouse, rat
Form/Format	0.01M PBS, pH 7.2, 0.1% Sodium azide, Glycerol 50%
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C.Stable for 12 months from date of receipt
Molecular Weight	28747
Immunogen Sequence Positions	11-70
OMIM	614587
3D Structure	ModBase 3D Structure for Q9BUX1
Antigen Type	synthetic peptide
Antigen Source	KLH conjugated synthetic peptide derived from human CHAC1
Product Categories/Family for anti-CHAC1 antibody	Cell Biology; Developmental Biology; Neuroscience; Signal Transduction; Stem Cells
Applications Tested/Suitable for anti-CHAC1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CHAC1 antibody	WB~~ 1:1000
Related Product Information for anti-CHAC1 antibody	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. May also act as a pro-apoptotic component of the unfolded protein response pathway by mediating the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade.
Product References and Citations for anti-CHAC1 antibody	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).
Other Notes	Small volumes of anti-CHAC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CHAC1 purchase	MBS9201481 is an antibody targeting CHAC1. Also known as CHAC1 Antibody. Reactive in Human, mouse, rat. Host: Rabbit.



Western Blot (WB) of anti-CHAC1 antibody
All lanes : Anti-CHAC1 Antibody at 1:1000 dilutionLane 1: Hela whole cell lysatesLane 2: PC-12 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilutionPredicted band size : 29 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHAC1. It may not necessarily be applicable to this product.

NCBI GI #	218563700
NCBI GeneID	79094
NCBI Accession #	NP_001136248.1
UniProt Primary Accession #	Q9BUX1
UniProt Secondary Accession #	Q0VIA0
UniProt Related Accession #	Q9BUX1
GenBank Nucleotide #	NM_001142776.1
NCBI Official Full Name	glutathione-specific gamma-glutamylcyclotransferase 1 isoform b
NCBI Official Synonym Full Names	ChaC glutathione-specific gamma-glutamylcyclotransferase 1
NCBI Official Symbol	CHAC1
UniProt Protein Name	Glutathione-specific gamma-glutamylcyclotransferase 1
UniProt Synonym Protein Names	Blocks Notch protein
Protein Family	Glutathione-specific gamma-glutamylcyclotransferase
UniProt Gene Name	CHAC1
UniProt Synonym Gene Names	Botch
UniProt Entry Name	CHAC1_HUMAN
NCBI Protein Information	glutathione-specific gamma-glutamylcyclotransferase 1

UniProt Comments for CHAC1	CHAC1: 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. May also act as a pro-apoptotic component of the unfolded protein response pathway by mediating the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade. Belongs to the chaC family. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 15q15.1 Cellular Component: trans-Golgi network; cytosol Molecular Function: protein binding; transferase activity, transferring acyl groups; Notch binding Biological Process: Notch signaling pathway; neurogenesis; metabolic process; negative regulation of Notch signaling pathway; response to unfolded protein
Research Articles on CHAC1	**1.** Botch regulates Notch signaling through deglycination and identify a posttranslational modification of Notch that plays an important role in neurogenesis.
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