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Bex1 Rabbit pAb

Catalog # AP96471

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9HBH7
Other Accession	Q9HBH7
Predicted	Rat, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14860
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HBEX2/Bex1
Epitope Specificity	55-125/125
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the BEX family.
SUBUNIT	Interacts with neurotrophin receptor p75NTR/NGFR. Interacts with OMP (By similarity).
Post-translational modifications	Phosphorylated. Phosphorylation of Ser-102 protects it from the proteasome (By similarity). Ubiquitinated. Degraded by the proteasome (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The brain-expressed X-linked (Bex) family of proteins is expressed in the central nervous system, with highest levels detected in cerebellum, temporal lobe and pituitary tissues. Bex1 plays an important role in neuronal differentiation in response to nerve growth factor (NGF), as well as in cell cycle progression. Bex1 is a highly ubiquitinated protein and acts as a link between the cell cycle and neurotrophic factor signaling. Bex2 interacts with LMO2, thereby regulating the transcriptional activity of a DNA-binding complex. Bex1 and Bex 2 are widely expressed outside of the central nervous system with high expression in the liver. Bex1 and Bex2 shuttle between the cytoplasm and the nucleus. Though the role of Bex1 is largely unknown, it may function by coordinating internal cellular states with the ability of cells to respond to external signals.

Additional Information

Gene ID	55859
Other Names	BEX2; HBEX2; HGR74-h; BEX1_HUMAN; BEX1; Brain-expressed X-linked protein 1; brain expressed X-linked 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	BEX1
Function	Signaling adapter molecule involved in p75NTR/NGFR signaling. Plays a role in cell cycle progression and neuronal differentiation. Inhibits neuronal differentiation in response to nerve growth factor (NGF). May act as a link between the cell cycle and neurotrophic factor signaling, possibly by functioning as an upstream modulator of receptor signaling, coordinating biological responses to external signals with internal cellular states (By similarity). In absence of reductive stress, acts as a pseudosubstrate for the CRL2(FEM1B) complex: associates with FEM1B via zinc, thereby preventing association between FEM1B and its substrates (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q3MKQ2}. Cytoplasm {ECO:0000250|UniProtKB:Q3MKQ2}. Note=Shuttles between the cytoplasm and the nucleus. Predominantly nuclear. {ECO:0000250|UniProtKB:Q3MKQ2}
Tissue Location	Expressed in central nervous system, with high level in pituitary, cerebellum and temporal lobe. Expressed in lung, skeletal muscle, peripheral blood leukocyte, stomach, lymph node, trachea and bone marrow. Highly expressed in acute myeloid leukemia

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