10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BEX1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10699c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9HBH7
Other Accession	Q9BXY8, Q2PG52, NP_060946.3
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24272
Calculated MW	14860
Antigen Region	63-90

Additional Information

Gene ID	55859
Other Names	Protein BEX1, Brain-expressed X-linked protein 1, BEX1
Target/Specificity	This BEX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-90 amino acids from the Central region of human BEX1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BEX1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

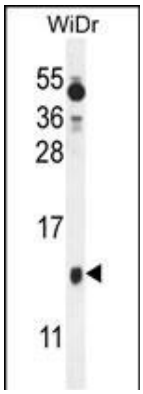
Background

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).

References

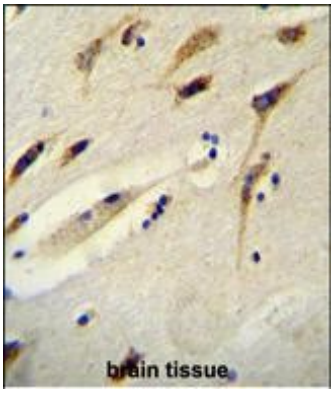
Ding, K., et al. Carcinogenesis 30(1):35-42(2009)
Foltz, G., et al. Cancer Res. 66(13):6665-6674(2006)
Alvarez, E., et al. Gene 357(1):18-28(2005)
Quentmeier, H., et al. Leukemia 19(8):1488-1489(2005)
Ross, M.T., et al. Nature 434(7031):325-337(2005)

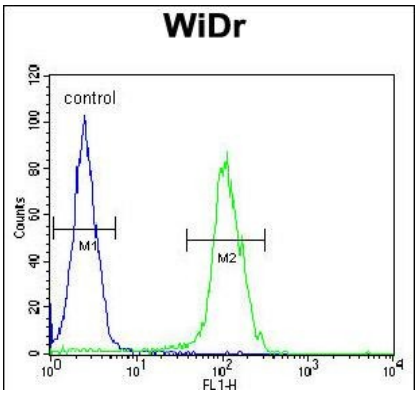
Images



BEX1 Antibody (Center) (Cat. #AP10699c) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the BEX1 antibody detected the BEX1 protein (arrow).

BEX1 Antibody (Center) (Cat. #AP10699c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the BEX1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.





BEX1 Antibody (Center) (Cat. #AP10699c) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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