

BPTF Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4297
Host	Mouse
Isotype	Mouse IgG2b
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human BPTF expressed in E. Coli.
Mol wt	338kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	Others
Concentration	N/A
Full name	N/A
Synonyms	FAC1;FALZ;NURF301;BPTF

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

BPTF (bromodomain and PHD domain transcription factor) is the largest subunit of the ATP-dependent chromatin-remodelling complex, NURF (nucleosome remodelling factor). NURF catalyses ATP-dependent nucleosome sliding and facilitates transcription. BPTF recognises histone H3 tails that are tri-methylated at K4, which marks the transcriptional start site of the vast majority of transcriptionally active genes. BPTF also exhibits some binding to H3 di-methylated at K4. BPTF plays a key role in the development of early mouse embryos, possibly through regulation of the Smad pathway of transcription factors. While BPTF is expressed in low levels in the adult brain and spinal cord, it is expressed in higher levels in the brain in neurodegenerative diseases. It is present in a subset of amyloid-containing plaques in the brains of patients suffering from Alzheimer's disease. Abundantly expressed in the fetal brain. Present throughout the gray and white matter of the developing spinal cord at 18-22 gestational weeks. Expressed at low levels in adult brain and spinal cord and reexpressed in neurodegenerative diseases (at protein level). Tissue specificity: Ubiquitously expressed, with highest levels in testis. Present in kidney, liver and brain. In the brain, highest levels are found in motor cortex (at protein level).

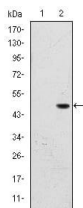
Recommended Dilution

WB: 1:500 - 1:2000

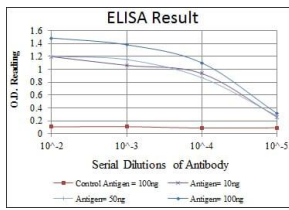
ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using BPTF mAb against HEK293 (1) and BPTF (AA: 503-670)-hIgGfc transfected HEK293 (2) cell lysate.



Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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