

Product datasheet for **AM06615SU-N**

BPTF Mouse Monoclonal Antibody [Clone ID: 2F10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F10
Applications:	ELISA, WB
Recommended Dilution:	Western Blotting: 1/500 - 1/2000. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human BPTF expressed in E. Coli.
Specificity:	This antibody reacts to BPTF.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	338 kDa
Gene Name:	bromodomain PHD finger transcription factor
Database Link:	Entrez Gene 2186 Human Q12830



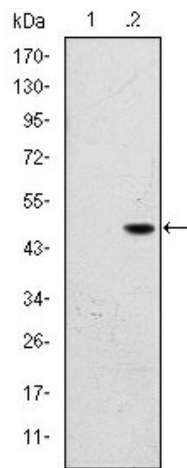
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Background:

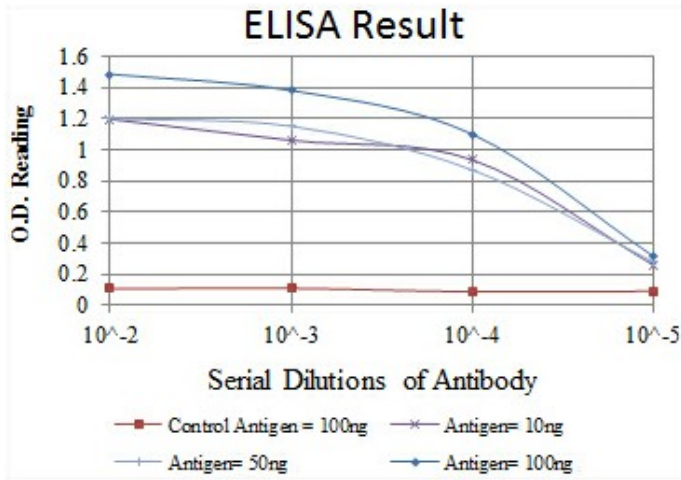
BPTF (bromodomain and PHD domain transcription factor) is the largest subunit of the ATP-dependent chromatin-remodelling complex, NURF (nucleosome remodelling factor). NURF catalyses ATP-dependent nucleosome sliding and facilitates transcription. BPTF recognises histone H3 tails that are tri-methylated 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).

Synonyms:

FALZ, Fetal Alzheimer antigen

Product 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);