BTAF1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

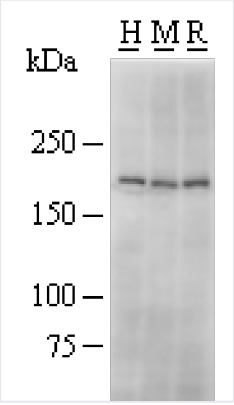
Product Name	BTAF1, Monoclonal Antibody
Full Product Name	Mouse monoclonal antibody Anti-Human BTAF1
Product Gene Name	anti-BTAF1 antibody
Product Synonym Names	BTAF1 RNA polymerase II, B-TFIID transcriptionfactor-associated, 170kDa (Mot1 homolog, S. cerevisiae) (BTAF1); MOT1; TAF172; KIAA0940; TAFII170;TAF(II)170
Clonality	Monoclonal
Isotype	IgG1
Clone Number	BTA3D61
Host	Mouse
Species Reactivity	Human
Concentration	100 ug/ml (1.0 ml) (lot specific)
Molecular Weight	76,419 Da
OMIM	605191
Preparation	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Sterility	Filtered through a 0.22 um membrane.
Applications Tested/Suitable for anti-BTAF1 antibody	Dot Blot (DB), Immunocytochemistry (ICC), Immunoprecipitation (IP), Western Blot (WB), Flow Cytometry (FC/FACS)
Related Product Information for anti-BTAF1 antibody	Initiation of transcription by RNA polymerase II requires the assistance of TATA box-binding protein (TBP; MIM 600075) and TBP-associated factors, or TAFs (e.g., TAF2B; MIM 604912), in 2 distinct complexes, TFIID and B-TFIID. The TFIID complex is composed of TBP and more than 8 TAFs. However, the majority of TBP is present in the B-TFIID complex, which is composed of TBP and TAFII170, also called TAF172, and has DNA-dependent ATPase activity.[supplied by OMIM] [NCBI Entrez Gene Summary]
Other Notes	Small volumes of anti-BTAF1 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 BTAF1 purchase	MBS120002 is an antibody targeting BTAF1. Also known as Mouse monoclonal antibody Anti-Human BTAF1. Reactive in Human. Host: Mouse.



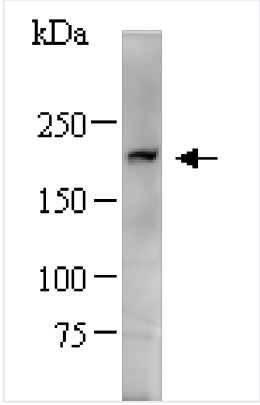
Quality Control of anti-BTAF1 antibody
Western blot analysis of immunized recombinant protein, using anti-BTAF1 monoclonal antibody.



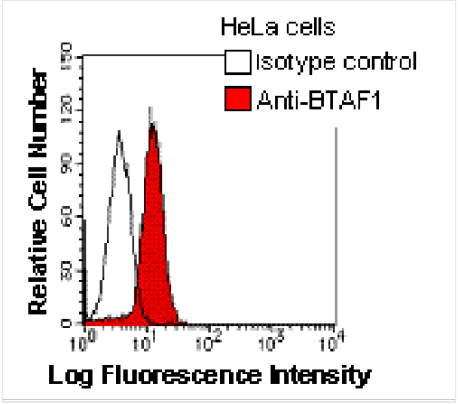
Quality Control #2 of anti-BTAF1 antibody
Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.



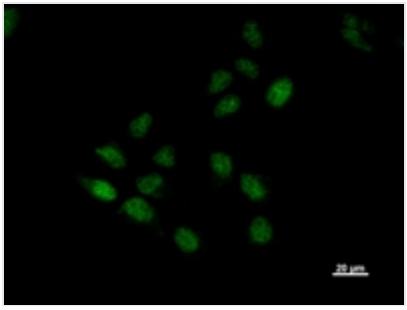
Western Blot (WB) of anti-BTAF1 antibody
Detection of BTAF1 by Western blot.Samples: Whole cell lysate from human HeLa (H, 50 ug), mouse NIH3T3 (M, 50 ug) and rat F2408 (R, 50 ug) cells. [Lot No. BTA3D61-1]Predicted molecular weight: 206 kDa



Immunoprecipitation (IP) of anti-BTAF1 antibody
Immunoprecipitation: RIPA lysate of HeLa cells was incubated with anti-BTAF1 mAb. [Lot No. BTA3D61-1]Predicted molecular weight: 206 kDa



Flow Cytometry (FC/FACS) of anti-BTAF1 antibody
HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-BTAF1 mAb (shaded) or isotype control (unshaded) followed by Alexa Fluor(R) 488-conjugated goat anti-mouse IgG. [Lot No. BTA3D61-1]



Immunocytochemistry (ICC) of anti-BTAF1 antibody
Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-BTAF1 mAb. [Lot No. BTA3D61-1]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BTAF1. It may not necessarily be applicable to this product.

NCBI GI #	50345994
NCBI GeneID	9044
NCBI Accession #	NP_003963.1
UniProt Secondary Accession #	O43578; B4E0W6

UniProt Related Accession #	O14981
GenBank Nucleotide #	NM_003972
NCBI Official Full Name	Homo sapiens BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (BTAF1), mRNA
NCBI Official Synonym Full Names	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa
NCBI Official Symbol	BTAF1
NCBI Official Synonym Symbols	MOT1; TAF172; TAFII170; TAF(II)170
UniProt Protein Name	TATA-binding protein-associated factor 172
UniProt Synonym Protein Names	ATP-dependent helicase BTAF1; B-TFIID transcription factor-associated 170 kDa subunit; TAF(II)170; TBP-associated factor 172; TAF-172
Protein Family	TATA-binding protein-associated factor
UniProt Gene Name	BTAF1
UniProt Entry Name	BTAF1_HUMAN
NCBI Protein Information	TATA-binding protein-associated factor 172; ATP-dependent helicase BTAF1; B-TFIID transcription factor-associated 170 kDa subunit; BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (Mot1 homolog, S. cerevisiae); TBP-associated factor 172
NCBI Summary for BTAF1	This gene encodes a TAF (TATA box-binding protein-associated factor), which associates with TBP (TATA box-binding protein) to form the B-TFIID complex that is required for transcription initiation of genes by RNA polymerase II. This TAF has DNA-dependent ATPase activity, which drives the dissociation of TBP from DNA, freeing the TBP to associate with other TATA boxes or TATA-less promoters. [provided by RefSeq, Sep 2011]
UniProt Comments for BTAF1	TAF172: Regulates transcription in association with TATA binding protein (TBP). Removes TBP from the TATA box in an ATP-dependent manner. Associates with TBP to form B-TFIID. Binds DRAP1. Belongs to the SNF2/RAD54 helicase family. Protein type: Helicase; EC 3.6.4.-; EC 3.6.1.-; Transcription initiation complex Chromosomal Location of Human Ortholog: 10q22-q23 Cellular Component: nucleus Molecular Function: DNA binding; helicase activity; transcription factor activity; ATP binding Biological Process: metabolic process; negative regulation of transcription, DNA-dependent
Research Articles on BTAF1	**1.** Results support a model for a BTAF1-mediated release of TBP-NC2 complexes from chromatin.
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