abcam

ab284785

Anti-TFIIB antibody [EP4588] - BSA and Azide free

RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EP4588
Purity	Tissue culture supernatant

Reactivity data

ICC/IF

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Antigen retrieval is recommended. Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information GTF2B

Function

General transcription factor that plays a role in transcription initiation by RNA polymerase II (Pol II). Involved in the pre-initiation complex (PIC) formation and Pol II recruitment at promoter DNA (PubMed:12931194, PubMed:1517211, PubMed:1876184, PubMed:1946368, PubMed:27193682, PubMed:3029109, PubMed:3818643, PubMed:7601352, PubMed:8413225, PubMed:8515820, PubMed:8516311, PubMed:8516312, PubMed:9420329). Together with the TATA box-bound TBP forms the core initiation complex and provides a bridge between TBP and the Pol II-TFIIF complex (PubMed:8413225, PubMed:8504927, PubMed:8515820, PubMed:8516311, PubMed:8516312). Released from the PIC early following the onset of transcription during the initiation and elongation transition and reassociates with TBP during the next transcription cycle (PubMed:7601352). Associates with chromatin to core promoter-specific regions (PubMed:12931194, PubMed:24441171). Binds to two distinct DNA core promoter consensus sequence elements in a TBP-independent manner; these IIB-recognition elements (BREs) are localized immediately upstream (BREu), 5'-[GC][GC][GA]CGCC-3', and downstream (BREd), 5'-[GA]T[TGA][TG][GT][TG][TG]-3', of the TATA box element (PubMed:10619841, PubMed:16230532, PubMed:7675079, PubMed:9420329). Modulates transcription start site selection (PubMed:10318856). Also exhibits autoacetyltransferase activity that contributes to the activated transcription (PubMed:12931194).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	+4°C

Notes

ab284785 is the carrier-free version of ab109518

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

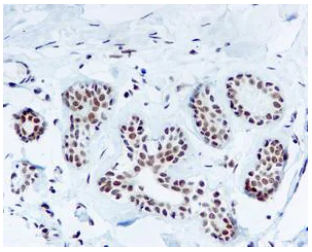
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

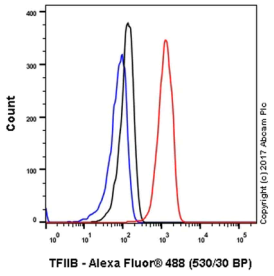
5 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TFIIB antibody [EP4588] - BSA and Azide free (ab284785)

TFIIB Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TFIIB antibody

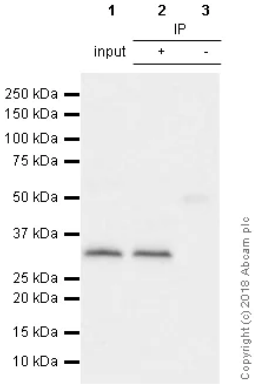
This data was developed using ab109518, the same antibody clone in a different buffer formulation.ab109518, at a 1/100 dilution, staining TFIIB in paraffin embedded Human breast tissue by Immunohistochemistry.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-TFIIB antibody [EP4588] - BSA and Azide free (ab284785)

TFIIB Flow Cytometry (Intracellular) staining using rabbit Anti-TFIIB antibody

This data was developed using ab109518, the same antibody clone in a different buffer formulation.Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labelling TFIIB with ab109518 at 1/20 dilution (4.05 µg/ml) (Red). Cells were fixed with 4% paraformaldehyde . Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) (Black). Unlabeled control - Unlabelled cells (Blue).

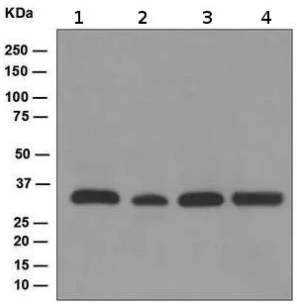


Immunoprecipitation - Anti-TFIIB antibody [EP4588] - BSA and Azide free (ab284785)

This data was developed using ab109518, the same antibody clone in a different buffer formulation.
ab109518 (purified) at 1/20 dilution (0.16 µg/ml) immunoprecipitating TFIIB in Jurkat whole cell lysate .
Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10µg
Lane 2 (+): ab109518 & Jurkat whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab109518 in Jurkat whole cell lysate.
For western blotting, ab109518 at 1/500 and VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/1000 dilution.
Blocking and diluting buffer: 5% NFDM /TBST.

All lanes:
Immunoprecipitation - Anti-TFIIB antibody [EP4588] (ab109518)

Predicted band size: 34 kDa



Western blot - Anti-TFIIB antibody [EP4588] - BSA and Azide free (ab284785)

This data was developed using ab109518, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-TFIIB antibody [EP4588] (ab109518) at 1/1000 dilution

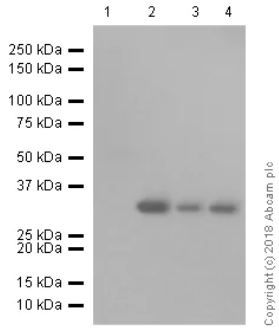
Lane 1:
HepG2 cell lyaste at 10 µg

Lane 2:
HeLa cell lyaste at 10 µg

Lane 3:
Jurkat cell lyaste at 10 µg

Lane 4:
K562 cell lyaste at 10 µg

Predicted band size: 34 kDa



Western blot - Anti-TFIIB antibody [EP4588] - BSA and Azide free (ab284785)

This data was developed using ab109518, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-TFIIB antibody [EP4588] (ab109518) at 1/1000 dilution

Lane 1:
C6 (Rat glial tumor glial cell) whole cell lysate at 20 µg

Lane 2:
Raw264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 20 µg

Lane 3:
PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate at 20 µg

Lane 4:
NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/1000 dilution

Predicted band size: 34 kDa

Observed band size: 35 kDa

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