Anti-TATA Box Binding Protein Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

Catalog # M014830

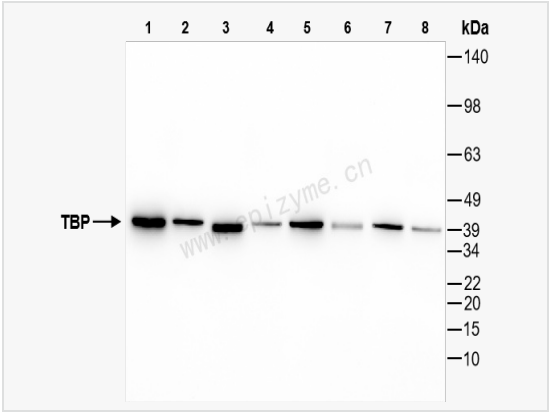
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse (Cell), Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:300; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	55K89S00
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human TATA Box Binding Protein
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-TATA Box Binding Protein Mouse mAb [55K89S00] is for research use only and not for use in diagnostic or therapeutic procedures.

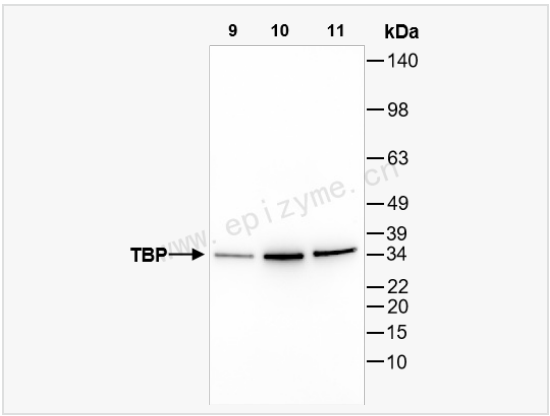
Protein Information

Synonyms	GTF2D, GTF2D1, TFIID, MGC117320, MGC126054, MGC126055, SCA 17, SCA17, TATA binding factor, TATA box binding protein, TATA box factor, TATA sequence binding protein, TATA sequence-binding protein, TATA binding protein TBP, TATA-binding factor, TATA-box factor, TATA-box-binding protein, TBP, TBP_HUMAN, TF2D, TFIID, Transcription initiation factor TFIID TBP subunit.
Calculated MW	Calculated MW: 38 kDa; Observed MW: 35,45 kDa
Uniprot ID	P20226
Gene ID	6908
Background	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes TBP, the TATA-binding protein. A distinctive feature of TBP is a long string of glutamines in the N-terminus. This region of the protein modulates the DNA binding activity of the C terminus, and modulation of DNA binding affects the rate of transcription complex formation and initiation of transcription. The number of CAG repeats encoding the polyglutamine tract is usually 25-42, and expansion of the number of repeats to 45-66 increases the length of the polyglutamine

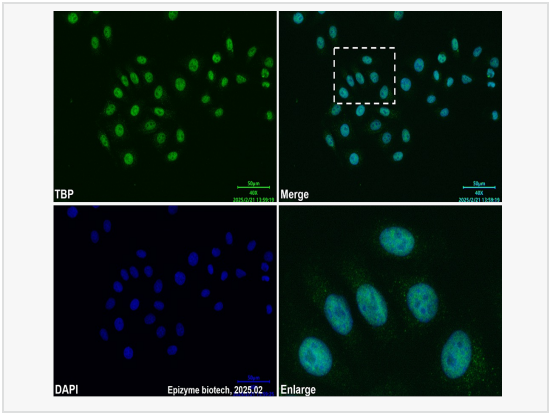
Validation Images



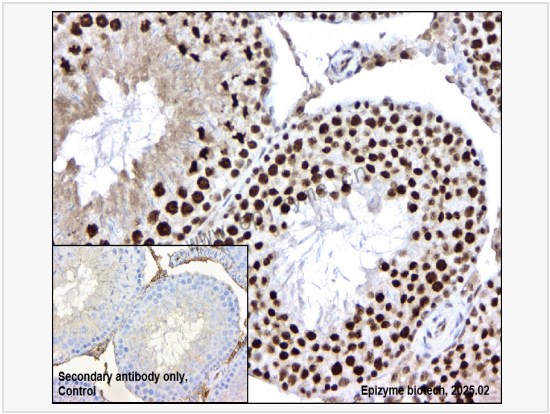
Western Blot - Anti-TATA Box Binding Protein Mouse mAb [55K89S00]
All lanes: M014830 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 5: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 6: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 7: 293T (Human embryonic kidney cell) whole cell lysates
Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 38 kDa
Observed band size: 35,45 kDa
Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-TATA Box Binding Protein Mouse mAb [55K89S00]
All lanes: M014830 at 1:1,000 dilution
Lane 9: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane10: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution
Predicted band size: 38 kDa
Observed band size: 35,45 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-TATA Box Binding Protein Mouse mAb [55K89S00]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibody: M014830 at 1:100 dilution
Secondary antibody: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-TATA Box Binding Protein Mouse mAb [55K89S00]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: M014830 at 1:300 dilution
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.