Rabbit TAF4 Polyclonal Antibody | anti-TAF4 antibody

Anti-TAF4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19307	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, ELISA**

PRODUCT SYNONYMS

TAF4; Polyclonal Antibody; Anti-TAF4 Antibody; TAF2C; TAF2C1; TAF4A; TAFII130; TAFII135; Transcription initiation factor TFIID subunit 4; RNA polymerase II TBP-associated factor subunit C; TBP-associated factor 4; Transcription initiation factor TFIID 130 kDa subunit; TAF(II130; TAFII-130; Transcription initiation factor TFIID 135 kDa subunit; TAF(II135; TAFII-135; TATA-box binding protein associated factor 4; anti-TAF4 antibody

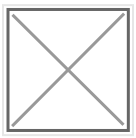
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TAF4 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-TAF4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), ELISA (Direct ELISA)
Application Notes	WB: Concentration: 0.1-0.25ug/ml; Tested Species: Human, Mouse, Rat IHC-P: Concentration: 2-5ug/ml; Tested Species: Human, Mouse, Rat ICC/IF: Concentration: 5ug/ml; Tested Species: Human Direct ELISA: Concentration: 0.1-0.5ug/ml; Tested Species: Human **Tested Species:** In house tested species with positive results. Other applications have not been tested. Optimal dilution should be determined by the end users.
Immunogen	E Coli-derived human TAF4 recombinant protein (Position: D6-K1085).
Reconstitution	0.2ml of distilled water will yield a concentation of 500ug/mL.
Recommended Detection Systems	We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG (please inquire) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (please inquire) for IHC(P) and ICC.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

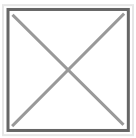
IMAGES

FCM (Flow Cytometry)
Figure 13. Flow Cytometry analysis of Hela cells using anti-TAF4 antibody (AAA19307).Overlay histogram showing Hela cells stained with AAA19307 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TAF4 Antibody (AAA19307, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)
Figure 12. IF analysis of TAF4 using anti- TAF4 antibody (AAA19307).TAF4 was detected in immunocytochemical section of CACO-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- TAF4 Antibody (AAA19307) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)
Figure 11. IHC analysis of TAF4 using anti-TAF4 antibody (AAA19307).TAF4 was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TAF4 Antibody (AAA19307) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 10. IHC analysis of TAF4 using anti-TAF4 antibody (AAA19307).TAF4 was detected in paraffin-embedded section of human ovarian serous adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TAF4 Antibody (AAA19307) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

IHC (Immunohistchemistry)
Figure 9. IHC analysis of TAF4 using anti-TAF4 antibody (AAA19307).TAF4 was detected in paraffin-embedded section of human gastric adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TAF4 Antibody (AAA19307) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 8. IHC analysis of TAF4 using anti-TAF4 antibody (AAA19307).TAF4 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-TAF4 Antibody (AAA19307) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-TAF4 antibody	Transcription initiation factor TFIID subunit 4 is a protein that in humans is encoded by the TAF4 gene. 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 one of the larger subunits of TFIID that has been shown to potentiate transcriptional activation by retinoic acid, thyroid hormone and vitamin D3 receptors. In addition, this subunit interacts with the transcription factor CREB, which has a glutamine-rich activation domain, and binds to other proteins containing glutamine-rich regions. Aberrant binding to this subunit by proteins with expanded polyglutamine regions has been suggested as one of the pathogenetic mechanisms underlying a group of neurodegenerative disorders referred to as polyglutamine diseases.

References	1. Bieniossek, C., Papai, G., Schaffitzel, C., Garzoni, F., Chaillet, M., Scheer, E., Papadopoulos, P., Tora, L., Schultz, P., Berger, I. The architecture of human general transcription factor TFIID core complex. Nature 493: 699-702, 2013. 2. Dunah, A. W., Jeong, H., Griffin, A., Kim, Y. -M., Standaert, D. G., Hersch, S. M., Mouradian, M. M., Young, A. B., Tanese, N., Krainc, D. Sp1 and TAFII130 transcriptional activity disrupted in early Huntington's disease. Science 296: 2238-2243, 2002. 3. Mengus, G., May, M., Carre, L., Chambon, P., Davidson, I. Human TAF(II)135 potentiates transcriptional activation by the AF-2s of the retinoic acid, vitamin D3, and thyroid hormone receptors in mammalian cells. Genes Dev. 11: 1381-1395, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	110832842
NCBI GeneID	6874
NCBI Accession #	NP_003176.2
NCBI GenBank Nucleotide #	NM_003185
UniProt Accession #	O00268; Q5TBP6; Q99721; Q9BR40; Q9BX42; A6NGD9
NCBI Official Full Name	Homo sapiens TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa (TAF4), mRNA
NCBI Official Synonym Full Names	TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa
NCBI Official Symbol	TAF4
NCBI Official Synonym Symbols	TAF2C; TAF4A; TAF2C1; TAFII130; TAFII135
NCBI Protein Information	transcription initiation factor TFIID subunit 4; RNA polymerase II TBP-associated factor subunit C; TAF(II)130; TAF(II)135; TAF4A RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135 kD; TAFII-130; TAFII-135; TATA box binding protein (
UniProt Protein Name	Transcription initiation factor TFIID subunit 4
UniProt Gene Name	**TAF4**
UniProt Synonym Gene Names	TAF2C; TAF2C1; TAF4A; TAFII130; TAFII135; TAF(II)130; TAFII-130; TAFII130; TAF(II)135; TAFII-135; TAFII135

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/taf4-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-direct-elisa-elisa/19307