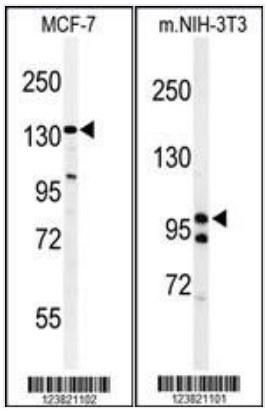
# TAF2 Antibody – Rabbit Polyclonal

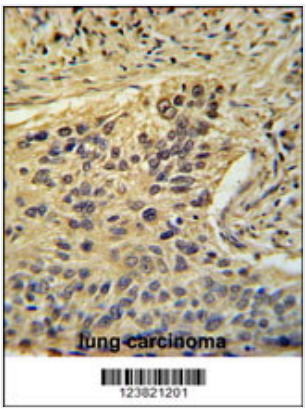
## PRODUCT OVERVIEW

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| **Product Name** | TAF2, Polyclonal Antibody |
| **Full Product Name** | TAF2, CT (TAF2, CIF150, TAF2B, Transcription initiation factor TFIID subunit 2, 150kD cofactor of initiator function, RNA polymerase II TBP-associated factor subunit B, TBP-associated factor 150kD, Transcription initiation factor TFIID 150kD subunit) (Bio |
| **Product Gene Name** | anti-TAF2 antibody |
| **Product Synonym Names** | TAF2; CIF150; TAF2B; Transcription initiation factor TFIID subunit 2; 150kD cofactor of initiator function; RNA polymerase II TBP-associated factor subunit B; TBP-associated factor 150kD; Transcription initiation factor TFIID 150kD subunit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 136,971 Da |
| **OMIM** | 604912 |
| **3D Structure** | ModBase 3D Structure for Q6P1X5 |
| **Immunogen** | TAF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1159~1188 amino acids from the C-terminal region of human TAF2. |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-TAF2 antibody** | Antibodies; Transcription Factors |
| **Applications Tested/Suitable for anti-TAF2 antibody** | Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-TAF2 antibody** | FC/FACS: 1:10-50<br>ELISA: 1:1,000<br>IHC: 1:50-100<br>WB: 1:100-500<br>Applications are based on unconjugated antibody. |

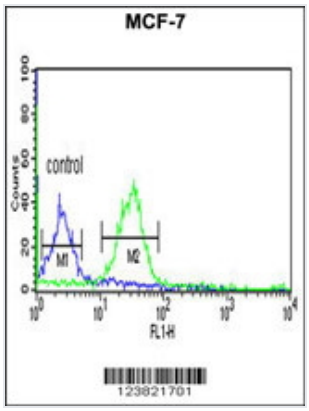
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| **Related Product Information for anti-TAF2 antibody** | Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which 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 is stably associated with the TFIID complex. It contributes to interactions at and downstream of the transcription initiation site, interactions that help determine transcription complex response to activators. |
| **Product References and Citations for anti-TAF2 antibody** | Olsen, J.V., et al. Cell 127(3):635-648(2006). Kim, J.E., et al. J. Proteome Res. 4(4):1339-1346(2005). Guermah, M., et al. Mol. Cell 12(4):991-1001(2003). |
| **Other Notes** | Small volumes of anti-TAF2 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 TAF2 purchase** | MBS6353371 is an antibody targeting TAF2. Also known as TAF2, CT (TAF2, CIF150, TAF2B, Transcription initiation factor TFIID subunit 2, 150kD cofactor of initiator function, RNA polymerase II TBP-associated factor subunit B, TBP-associated factor 150kD, Transcription initiation factor TFIID 150kD subunit) (Bio. Reactive in Human, Mouse. Host: Rabbit. |




**Western Blot (WB) of anti-TAF2 antibody**
(LEFT) Western blot analysis of TAF2 Antibody (C-Term) in MCF-7 cell line lysates (35ug/lane). TAF2 (arrow) was detected using the purified Pab. (RIGHT) Western blot analysis of TAF2 Antibody (C-Term) in mouse NIH-3T3 cell line lysates (35ug/lane). TAF2 (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-TAF2 antibody**
TAF2 Antibody (C-Term) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TAF2 Antibody (C-Term) for immunohistochemistry. Clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-TAF2 antibody**
TAF2 Antibody (C-Term) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAF2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 40674143 |
| **NCBI GeneID** | 6873 |
| **NCBI Accession #** | AAH64830.1 |
| **UniProt Primary Accession #** | Q6P1X5 |
| **UniProt Secondary Accession #** | O43487; O43604; O60668; Q86WW7; Q8IWK4; B2RE82 |
| **UniProt Related Accession #** | Q6P1X5 |
| **NCBI Official Full Name** | TAF2 protein, partial |
| **NCBI Official Synonym Full Names** | TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 150kDa |
| **NCBI Official Symbol** | TAF2 |
| **NCBI Official Synonym Symbols** | MRT40; TAF2B; CIF150; TAFII150 |
| **UniProt Protein Name** | Transcription initiation factor TFIID subunit 2 |
| **UniProt Synonym Protein Names** | 150 kDa cofactor of initiator function; RNA polymerase II TBP-associated factor subunit B; TBP-associated factor 150 kDa; Transcription initiation factor TFIID 150 kDa subunit |
| **Protein Family** | Transcription initiation factor |
| **UniProt Gene Name** | TAF2 |
| **UniProt Synonym Gene Names** | CIF150; TAF2B; TAF(II)150; TAFII-150; TAFII150 |
| **UniProt Entry Name** | TAF2_HUMAN |
| **NCBI Protein Information** | transcription initiation factor TFIID subunit 2; TAF(II)150; TBP-associated factor 150 kDa; 150 kDa cofactor of initiator function; cofactor of initiator function, 150kD subunit; RNA polymerase II TBP-associated factor subunit B; transcription initiation |
| **UniProt Comments for TAF2** | TAF2: Transcription factor TFIID is one of the general factors required for accurate and regulated initiation by RNA polymerase II. TFIID is a multimeric protein complex that plays a central role in mediating promoter responses to various activators and repressors. It requires core promoter-specific cofactors for productive transcription stimulation. TAF2 stabilizes TFIID binding to core promoter. Belongs to the TAF2 family.<br><br>Protein type: Transcription initiation complex<br><br>Chromosomal Location of Human Ortholog: 8q24.12<br><br>Cellular Component: nucleoplasm; transcription factor TFIID complex<br><br>Molecular Function: protein binding; zinc ion binding; metallopeptidase activity<br><br>Biological Process: transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; viral reproduction; RNA elongation from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter; gene expression; proteolysis; G2/M transition of mitotic cell cycle; response to organic cyclic substance<br><br>Disease: Mental Retardation, Autosomal Recessive 40 |
| **Research Articles on TAF2** | **1.** This study suggested that the Microcephaly thin corpus callosum intellectual disability syndrome is caused by the more conserved mutation p.Thr186Arg, with the second sequence change identified, p.Pro416His. |
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