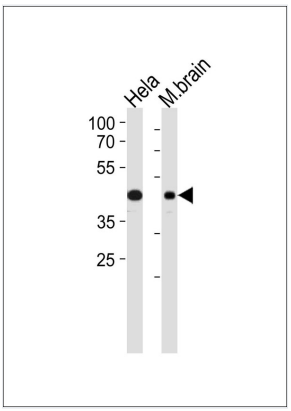
# TARDBP Antibody – Rabbit Polyclonal

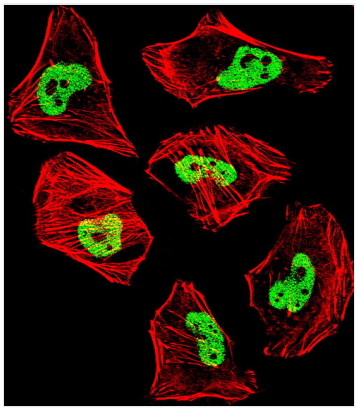
## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | TARDBP, Polyclonal Antibody |
| **Full Product Name** | TARDBP, NT (TARDBP, TDP43, TAR DNA-binding protein 43) (MaxLight 405) |
| **Product Gene Name** | anti-TARDBP antibody |
| **Product Synonym Names** | TARDBP; TDP43; TAR DNA-binding protein 43 |
| **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 MaxLight405. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human TARDBP at ~45kD. Species Crossreactivity: mouse |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 414 |
| **Chromosome Location** | Chromosome: 1; NC_000001.10 (11072462..11085549). Location: 1p36.22 |
| **OMIM** | 605078 |
| **3D Structure** | ModBase 3D Structure for Q13148 |
| **Immunogen** | KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids aa1-30 in the N-terminal region of human TARDBP, Swiss/UniProt Accession: Q13148 Cellular Localization: Nucleus. Species sequence homology: chicken |
| **Conjugate** | MaxLight405 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-TARDBP antibody** | Antibodies; Binding Proteins |
| **Applications Tested/Suitable for anti-TARDBP antibody** | Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Immunofluorescence (IF), FLISA |
| **Application Notes for anti-TARDBP antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-TARDBP antibody** | MBS6353605 is an antibody targeting TARDBP. Also known as TARDBP, NT (TARDBP, TDP43, TAR DNA-binding protein 43) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit. |
| **Product References and Citations for anti-TARDBP antibody** | 1. Kim, S.H., et al. J. Biol. Chem. 285(44):34097-34105(2010). 2. Geser, F., et al. Arch. Neurol. 67(10):1238-1250(2010). 3. Mackenzie, I.R., et al. Lancet Neurol 9(10):995-1007(2010). 4. Shan, X., et al. Proc. Natl. Acad. Sci. U.S.A. 107(37):16325-16330(2010). 5. McKee, A.C., et al. J. Neuropathol. Exp. Neurol. 69(9):918-929(2010). |

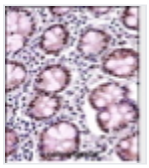
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| **Other Notes** | Small volumes of anti-TARDBP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-TARDBP antibody**
Western Blot analysis in Hela cell line and mouse brain lysates (35ug/lane) usingMBS646168. This demonstrates MBS646168 detected the TARDBP protein (arrow).



**Immunofluorescence (IF) of anti-TARDBP antibody**
Fluorescent confocal image of Hela cell stained withMBS646168. Hela cells were fixed with 4% PFA (20min), permeabilized with Triton X-100 (0.1%, 10min), then incubated with MBS646168 (1:25, 1hr at 37 degree C). For secondary antibody, Alexa Fluor488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50min at 37 degree C). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1hr at 37 degree C). Nuclei were counterstained with DAPI (blue) (10ug/ml, 10min). TARDBP immunoreactivity is localized to nucleus significantly and Cytoplasm weakly.



**Immunohistochemistry (IHC) of anti-TARDBP antibody**
Immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue using MBS646168 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates MBS646168 for immunohistochemistry.

## ADDITIONAL DETAILS

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

| | |
|---|---|
| **NCBI GI #** | 6678271 |
| **NCBI GeneID** | 23435 |
| **NCBI Accession #** | NP_031401.1 |
| **UniProt Primary Accession #** | Q13148 |
| **UniProt Secondary Accession #** | Q53H27; Q6FI92; Q96DJ0; A4GUK4; A4GUK5; A4GUK6; B2R629; E2PU12 |
| **UniProt Related Accession #** | Q13148 |
| **GenBank Nucleotide #** | NM_007375.3 |
| **NCBI Official Full Name** | TAR DNA-binding protein 43 |
| **NCBI Official Synonym Full Names** | TAR DNA binding protein |

| | |
|---|---|
| **NCBI Official Symbol** | TARDBP |
| **NCBI Official Synonym Symbols** | ALS10; TDP-43 |
| **UniProt Protein Name** | TAR DNA-binding protein 43 |
| **Protein Family** | TAR DNA-binding protein |
| **UniProt Gene Name** | TARDBP |
| **UniProt Synonym Gene Names** | TDP43; TDP-43 |
| **UniProt Entry Name** | TADBP_HUMAN |
| **NCBI Protein Information** | TAR DNA-binding protein 43; TAR DNA-binding protein-43 |
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