

Mouse TDP-43/TARDBP Monoclonal Antibody | anti-TDP-43/TARDBP antibody

TDP-43/TARDBP (BSB-166)

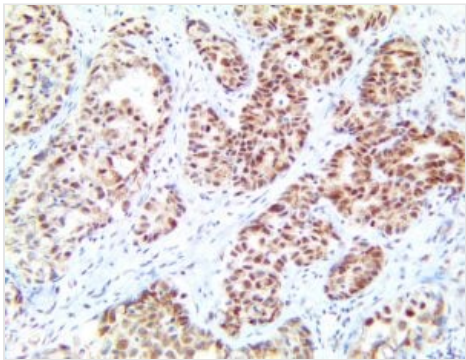
CATALOG # AAA59413	HOST Mouse	REACTIVITY Human, Mouse, Rat, Horse, Dog, Bovine
------------------------------	----------------------	--

PRODUCT SYNONYMS

TDP-43/TARDBP; Monoclonal Antibody; TDP-43/TARDBP (BSB-166); tdp43; tdp-43; tdp 43; anti-tdp43; anti-tdp-43; anti-tdp 43; tardbp; anti-tardbp; transactive response dna binding protein 43; anti-TDP-43/TARDBP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Horse, Dog, Bovine
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	BSB-166
Form/Format	TDP-43 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH7.5, containing BSA and sodium azide as a preservative.
Immunogen	Synthetic peptide corresponding to the N-terminus of the human TARDBP protein.
Control	Breast, Fallopian Tubes, Testis, Skin, Transitional Cell Carcinoma, Glioblastoma
Localization	Cytoplasmic, Nuclear
Reactivity	Paraffin, Frozen
Presentation	Anti-TDP-43(TARDBP is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Precautions	1. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 2. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents. 3. Dispose of unused solution with copious amounts of water. 4. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 5. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 6. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 7. For additional safety information refer to Safety Data Sheet for this product. 8. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL (see References in this document).
Mounting Protocols	For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMOUNTER or organic solvent based resin such as PermaMOUNTER.
Product Limitations	Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls.
Preparation and Storage	Store at 2-8 degree C (Control Slides: Store at 20-25 degree C)



Antibody Type	Dilution	Volume/Qty
PreDiluted	Ready-To-Use	3.0 ml
PreDiluted	Ready-To-Use	7.0 ml
PreDiluted	Ready-To-Use	15.0 ml
Concentrated	1:50-1:200	0.1 ml
Concentrated	1:50-1:200	0.5 ml
Concentrated	1:50-1:200	1.0 ml
Control Slides		5

Dilution Info

IHC (Immunohistochemistry)
TDP-43 Antibody Immunohistochemistry on an FFPE Lung Adenocarcinoma Tissue

Abbreviated Immunohistochemical Protocol			
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-TDP-43/TARDBP antibody

This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections, and cell preparations.

Transactive Response DNA binding protein 43 (TARDBP) is an RNA and DNA binding protein in the heterogenous nuclear ribonucleoprotein (hnRNP) family, where it regulates RNA associated with glucose and lipid metabolism. TARDBP has been found to interact with miRNAs (though Drosha and Dicer complexes), mRNAs, long ncRNAs, snoRNAs and rRNAs, affecting their transcription, pre-mRNA splicing, RNA transport and translational regulation. TARDBP is associated with several neurodegenerative conditions (amyotrophic lateral sclerosis (ALS) and frontotemporal lobar degeneration (FTLD)) and metabolic regulation in cancer cells. TARDBP regulation of miRNAs has both tumor supporting and suppressive roles. Upregulation of TARDBP can lead to continued autophagy for survival and suppression of apoptosis pathways, promoting cancer cell survival under conditions of nutrient stress, as was seen in a study of glioblastomas. TARDBP and its targeted miRNAs have been associated with increased cell growth and migration in hepatocellular and lung cancers, but also with tumor inhibition in rhabdomyosarcomas through miRNA miR- 500a- 3p. TARDBP may also influence the function and targets of MiR-152, and miRNA associated with hepatocellular carcinoma, endometrial, gastric, and ovarian cancers.

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.