

Mouse Anti-TDP43/TAR DNA binding protein-43 [3H8]: MC0347

Intended Use: For Research Use Only

Description: TDP43 or TAR DNA-binding protein 43 belongs to the hnRNP protein family and plays an important role in transcription, pre-mRNA splicing, mRNA stability and mRNA transport. It is involved in splicing of the apolipoprotein A-II and cystic fibrosis transmembrane gene. It is also involved in transcriptional regulation and exon splicing. While normal TDP43 is a nuclear protein, pathological TDP43 is a component of insoluble aggregates in patients with frontotemporal lobar degeneration (FTLD) and amyotrophic lateral sclerosis (ALS). This protein is highly expressed in the pancreas, placenta, lung, genital tract and spleen. Mutations in TDP43 have been associated with amyotrophic lateral sclerosis, frontotemporal dementia, Parkinson's disease and Alzheimer's disease.

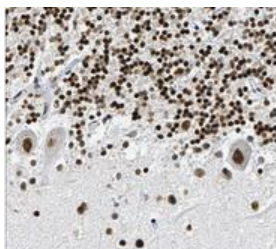
Specifications

Clone: 3H8
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human, mouse, rat
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
TDP43/TAR DNA binding protein-43 Concentrated	MC0347	1 ml

IHC Procedure*

Positive Control Tissue: Papillary carcinoma tissue
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human cerebellum stained with anti-TDP43 using AEC

References:

1. Novel somatic single nucleotide variants within the RNA binding protein hnRNP A1 in multiple sclerosis patients. Lee, S; Levin, M. F1000Research 3 132, 2014.
2. Disturbance of nuclear and cytoplasmic TAR DNA-binding protein (TDP-43) induces disease-like redistribution, sequestration, and aggregate formation. Winton MJ, et al. J Biol Chem. May 9;283(19):13302-9, 2008.
3. TDP-43 in familial and sporadic frontotemporal lobar degeneration with ubiquitin inclusions. Cairns NJ, et al., Am J Pathol. Jul;171(1):227-40, 2007.

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Rev. A