TDP43 (PT0126R) PT™ Rabbit mAb

CatalogNo: YM8069 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,IP,ELISA

MW
- 45kD (Calculated)

45kD (Observed)

Isotype
- IgG, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:1000-1:5000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200,

Basic Information

Clonality	Monoclonal
Clone Number	PT0126R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous

Target Information

Gene name TARDBP TDP43

Protein Name TAR DNA-binding protein 43 (TDP-43)

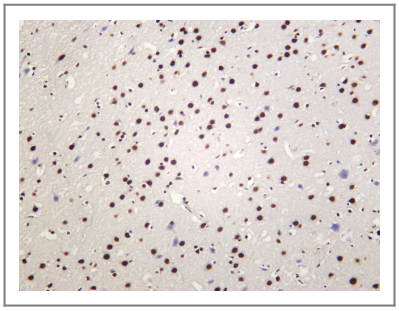
Organism	Gene ID	UniProt ID
Human	23435;	Q13148;
Mouse		Q921F2;

Cellular Localization Nucleus

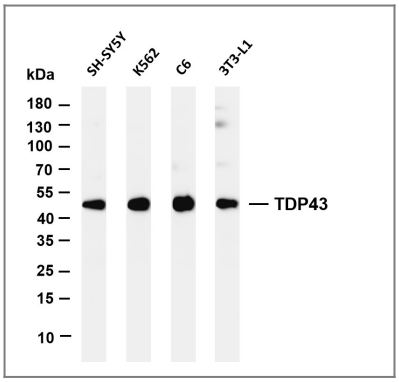
Tissue specificity Ubiquitously expressed. In particular , expression is high in pancreas , placenta , lung , genital tract and spleen.

Function Disease:Defects in TARDBP are a cause of amyotrophic lateral sclerosis type 10 (ALS10) [MIM:612069]. ALS is a neurodegenerative disorder affecting upper and lower motor neurons and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of ALS is likely to be multifactorial , involving both genetic and environmental factors. TARDBP is the primary component of ubiquitin-positive inclusion bodies found in ALS and in frontotemporal lobar degeneration with ubiquitin-positive inclusions (FTLDU) . ,Function:DNA and RNA-binding protein which regulates transcription and splicing. Involved in the regulation of CFTR splicing. It promotes CFTR exon 9 skipping by binding to the UG repeated motifs in the polymorphic region near the 3'-splice site of this exon. The resulting aberrant splicing is associated with pathological features typical of cystic fibrosis. May also be involved in microRNA biogenesis , apoptosis and cell division. Can repress HIV-1 transcription by binding to the HIV-1 long terminal repeat. ,PTM:Cleaved to generate C-terminal fragments in hippocampus , neocortex , and spinal cord from individuals affected with ALS and FTLDU. ,PTM:Hyperphosphorylated in hippocampus , neocortex , and spinal cord from individuals affected with ALS and FTLDU. ,PTM:Ubiquitinated in hippocampus , neocortex , and spinal cord from individuals affected with ALS and FTLDU. ,similarity:Contains 2 RRM (RNA recognition motif) domains. ,subcellular location:Eliminated from nuclei of ubiquitinated inclusion-bearing neurons in FTLDU. ,subunit:Binds specifically to pyrimidine-rich motifs of TAR DNA and to single stranded TG repeated sequences. Binds to RNA , specifically to UG repeated sequences with a minimun of six contiguous repeats. ,tissue specificity:Ubiquitously expressed. In particular , expression is high in pancreas , placenta , lung , genital tract and spleen. ,

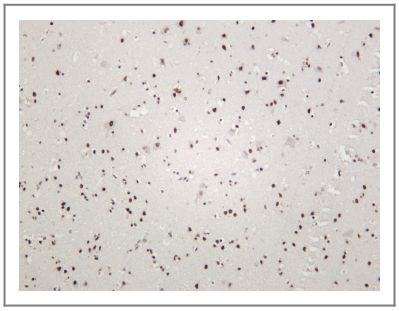
Validation Data



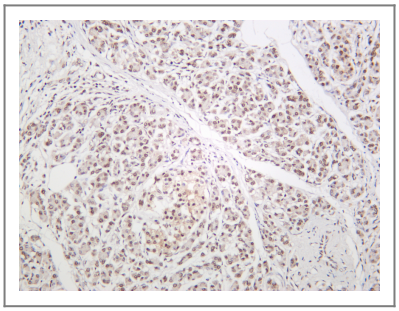
Rat brain was stained with anti-TDP43 rabbit antibody



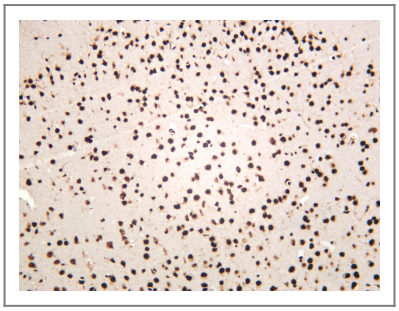
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TDP43 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: SH-SY5Y Lane 2: K562 Lane 3: C6 Lane 4: 3T3-L1 Predicted band size: 45kDa Observed band size: 45kDa



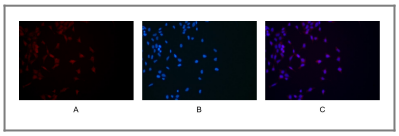
Human brain was stained with anti-TDP43 rabbit antibody



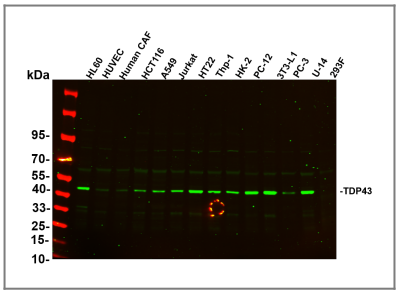
Human pancreas was stained with anti-TDP43 rabbit antibody



Mouse brain was stained with anti-TDP43 rabbit antibody



Immunofluorescence analysis of HEK293. Picture A:TDP43 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃ over night with a 1:2500 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 45kDa Observed band size: 45kDa

Contact information

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Please scan the QR code to access additional product information:
TDP43 (PT0126R) PT™ Rabbit mAb