



For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-P-TDP43(S409/410) Rabbit pAb		
<b>Source</b>	Rabbit		
<b>Species reactivity</b>	Human, Mouse, Rat		
<b>Tested applications</b>	WB	1:1000-1:2000	
	IHC, IF	1:200-1:500	
<b>Molecular Wt.</b>	45 kDa		
<b>Cellular localization</b>	Cytoplasm, Mitochondrion, Nucleus.		
<b>Pack size</b>	50/100/200/500/1000µl		
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>		
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide		

## General Information

**Background**

The TARDBP gene encodes the TDP-43 protein, initially found to repress HIV-1 transcription by binding TAR DNA. TDP-43 has since been shown to bind RNA as well as DNA, and have multiple functions in transcriptional repression, translational regulation and pre-mRNA splicing. TDP-43 is the major component of the tau-negative and ubiquitin-positive inclusions that characterize amyotrophic lateral sclerosis (ALS) and the most common pathological subtype of frontotemporal lobar degeneration (FTLD-U). Various forms of TDP-43 exist, including 18-35 kDa of cleaved C-terminal fragments, 45-50 kDa phospho-protein, 55 kDa glycosylated form, 75 kDa hyperphosphorylated form, and 90-300 kDa cross-linked form.

**Immunogen**

Polyclonal antibody is produced by immunizing animals with a recombinant protein of P-TDP43(S409/410).

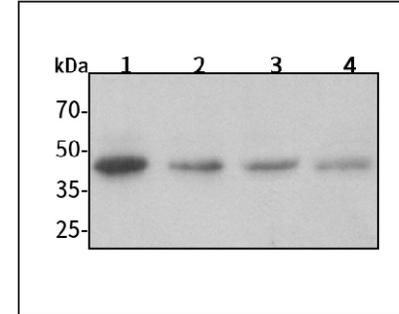
**Purification**

Polyclonal antibody was purified by Protein A affinity chromatography.



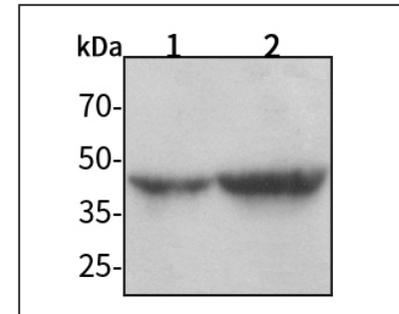
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## Product Images



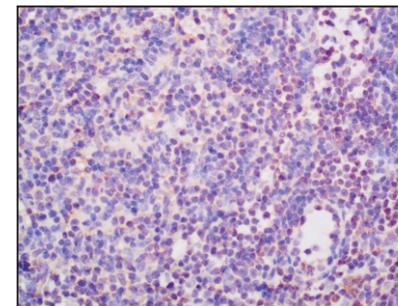
## Western blot-Anti-P-TDP43(S409/410) pAb

Lane 1: Human MCF-7 cell lysate 30µg  
 Lane 2: Human HEK293 cell lysate 30µg  
 Lane 3: Human HUVEC cell lysate 30µg  
 Lane 4: Human SW480 cell lysate 30µg  
 Separation gel: 10% polyacrylamide  
 Electrophoresis: 100V, 4°C, 3h  
 Transmembrane: 100V, 4°C, 1h  
 Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking  
 Primary antibody: 1:1000 in blocking buffer, 4°C, overnight  
 Visualization: ECL, 30s-2min



## Western blot-Anti-P-TDP43(S409/410) pAb

Lane 1: Mouse heart tissue lysate 30µg  
 Lane 2: Rat stomach tissue lysate 30µg  
 Separation gel: 10% polyacrylamide  
 Electrophoresis: 100V, 4°C, 3h  
 Transmembrane: 100V, 4°C, 1h  
 Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking  
 Primary antibody: 1:1000 in blocking buffer, 4°C, overnight  
 Visualization: ECL, 30s-2min



## Immunohistochemistry-Anti-P-TDP43(S409/410) pAb

Immunohistochemical analysis of paraffin-embedded mouse lymph gland using anti-P-TDP43(S409/410) Rabbit Antibody at 1:200 dilution. Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

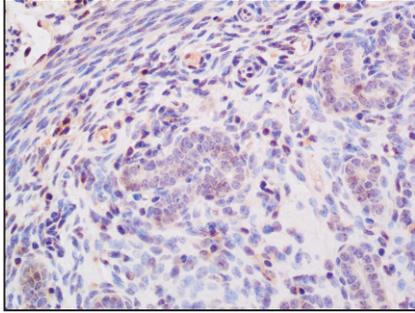
## Anti-P-TDP43(S409/410) Rabbit pAb



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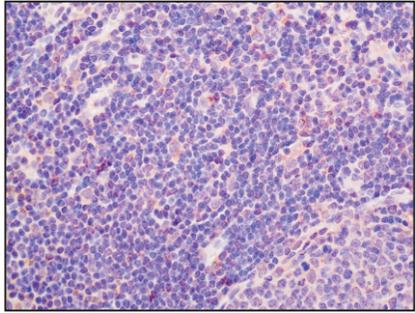
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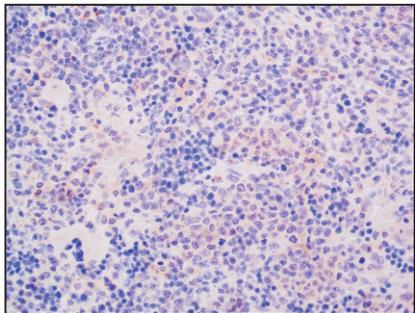
#### Immunohistochemistry-Anti-P-TDP43(S409/410) pAb

Immunohistochemical analysis of paraffin-embedded mouse uterus using anti-P-TDP43(S409/410) Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunohistochemistry-Anti-P-TDP43(S409/410) pAb

Immunohistochemical analysis of paraffin-embedded rat lymph gland using anti-P-TDP43(S409/410) Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunohistochemistry-Anti-P-TDP43(S409/410) pAb

Immunohistochemical analysis of paraffin-embedded rat spleen using anti-P-TDP43(S409/410) Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

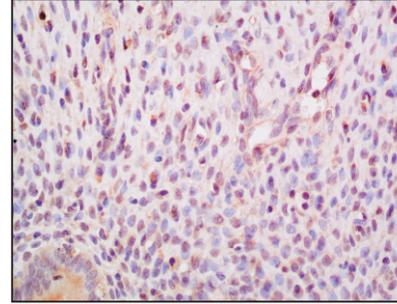
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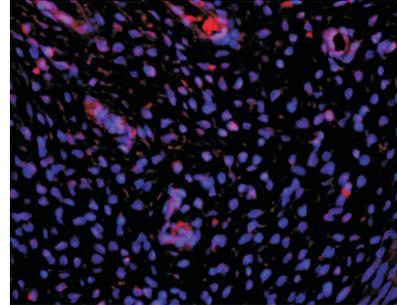
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### Product Information



#### Immunohistochemistry-Anti-P-TDP43(S409/410) pAb

Immunohistochemical analysis of paraffin-embedded rat uterus using anti-P-TDP43(S409/410) Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-P-TDP43(S409/410) pAb

Immunofluorescence analysis of paraffin-embedded rat uterus using anti-P-TDP43(S409/410) Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0