

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-TDP43 (Ser409/410) Recombinant antibody



Catalog Number: **CL647-80007**

Basic Information

Catalog Number: CL647-80007	GenBank Accession Number: NM_007375	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 23435	CloneNo.: 6M10
Source: Rabbit	UNIPROT ID: Q13148	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG	Full Name: TAR DNA binding protein	
	Calculated MW: 43 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human, mouse

Background Information

Transactivation response (TAR) DNA-binding protein of 43 kDa (also known as TARDBP or TDP-43) was first isolated as a transcriptional inactivator binding to the TAR DNA element of the HIV-1 virus. Neumann et al. (2006) found that a hyperphosphorylated, ubiquitinated, and cleaved form of TARDBP, known as pathologic 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. (PMID: 17023659, 19823856, 21666678, 22193176). 80007-1-RR is a recombinant rabbit monoclonal antibody recognizing TDP-43 only when phosphorylated at 409/410. Immunohistochemical analyses using this antibody only stain the insoluble inclusions in pathologic tissues without normal diffuse nuclear staining.

Storage

Storage:
Store at -20°C. Avoid exposure to light.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

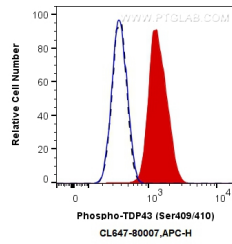
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



1X10⁶ Jurkat cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 1 ug CoraLite® Plus 647 Anti-Human Phospho-TDP43 (Ser409/410) (CL647-80007, Clone:6M10) , or 1 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.