

# CoraLite® Plus 647-conjugated TDP-43 (human specific) Monoclonal antibody

**Catalog Number:** CL647-60019

## Basic Information

<b>Catalog Number:</b> CL647-60019	<b>GenBank Accession Number:</b> BC001487	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 23435	<b>CloneNo.:</b> 6H6E12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13148	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG1	<b>Full Name:</b> TAR DNA binding protein	
<b>Immunogen Catalog Number:</b> AG1231	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

**Tested Applications:****Species Specificity:**  
human

## 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). 60019-2-Ig is a mouse monoclonal antibody recognizing the cleavage product of 20-30 kDa in addition to the native and phosphorylated forms of TDP-43. Immunohistochemical analyses of TDP-43 using this antibody detect both normal diffuse nuclear staining and insoluble inclusions in pathologic tissues. Notably this antibody only recognizes human TDP-43 but not reacts with mouse or rat TDP-43.

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**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:

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