

For Research Use Only

# Caspase 2/P32/P18 Monoclonal antibody, PBS Only (Detector)

Catalog Number: 66517-1-PBS



## Basic Information

<b>Catalog Number:</b> 66517-1-PBS	<b>GenBank Accession Number:</b> BC002427	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 835	<b>CloneNo.:</b> 2G4C2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P42575	
<b>Isotype:</b> IgG1	<b>Full Name:</b> caspase 2, apoptosis-related cysteine peptidase	
<b>Immunogen Catalog Number:</b> AG20141	<b>Calculated MW:</b> 452 aa, 51 kDa	
	<b>Observed MW:</b> 48-51 kDa, 32 kDa, 18 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

66517-1-PBS targets Caspase 2/P32/P18 as part of a matched antibody pair:

MP50435-1: 66517-2-PBS capture and 66517-1-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

CASP2 (Caspase-2) is also named as ICH1, NEDD2 and belongs to the peptidase C14A family. It is involved in the activation cascade of caspases responsible for apoptosis execution and might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival. It has 2 isoforms produced by alternative splicing and can exist almost as a dimer in solution (PMID:15865942). This antibody can recognize the 32 kDa pro-caspase 2 as well as 18 kDa cleaved-caspase 2.

## Storage

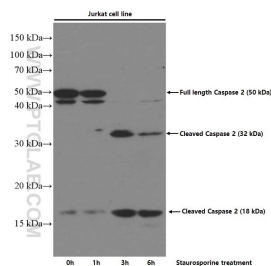
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

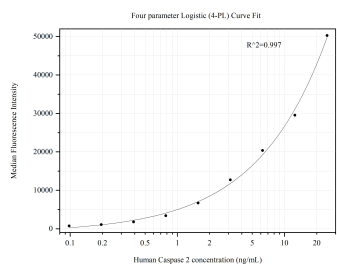
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 66517-1-Ig (Caspase 2/P32/P18 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66517-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50435-1, Caspase 2 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66517-2-PBS. Detection antibody: 66517-1-PBS. Standard:Ag20141. Range: 0.098-25 ng/mL