

For Research Use Only

# CD3EAP Recombinant antibody, PBS Only (Capture)

Catalog Number: 84139-4-PBS



## Basic Information

<b>Catalog Number:</b> 84139-4-PBS	<b>GenBank Accession Number:</b> BC038992	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10849	<b>CloneNo.:</b> 241379H5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O15446	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD3e molecule, epsilon associated protein	
<b>Immunogen Catalog Number:</b> AG35074	<b>Calculated MW:</b> 510 aa, 55 kDa	
	<b>Observed MW:</b> 80-90 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

84139-4-PBS targets CD3EAP as part of a matched antibody pair:

MP01056-3: 84139-4-PBS capture and 84139-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

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

Human RNA polymerase I (Pol I)-specific subunit, previously identified as ASE-1 and as CD3e-associated signal transducer (CAST). CD3EAP is a 55 kDa nucleolar autoantigen that has an apparent molecular mass of 90 kDa (PMID: 11199923). CD3EAP/hPAF49 contains a single tyrosine residue at position 82 (Tyr82), which is phosphorylated upon stimulation of the T-cell receptor. Western blot analysis detected CD3EAP at an apparent molecular mass of ~80-90 kDa.

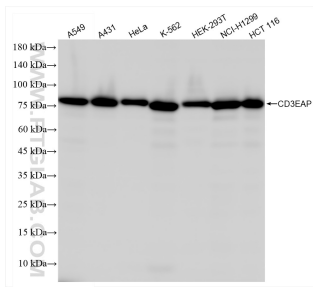
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

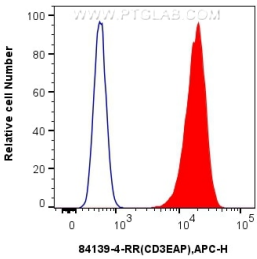
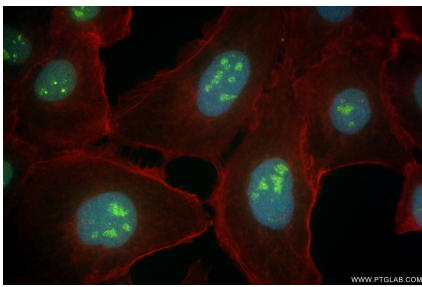
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

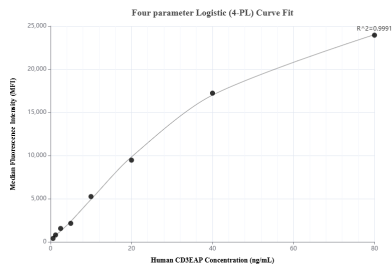
## Selected Validation Data



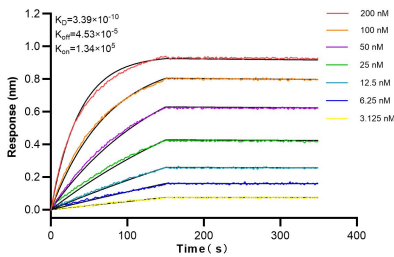
Various lysates were subjected to SDS PAGE followed by western blot with 84139-4-RR (CD3EAP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84139-4-PBS in a different storage buffer formulation.



1x10<sup>6</sup> U2OS cells were intracellularly stained with 0.25 ug CD3EAP Recombinant antibody (84139-4-RR, Clone:241379H5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84139-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01056-3, CD3EAP Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84139-4-PBS. Detection antibody: 84139-2-PBS. Standard: Ag35074. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84139-4-RR against Human CD3EAP were performed. The affinity constant is 0.339 nM.