

For Research Use Only

# PDIA3 Recombinant antibody

Catalog Number: 85087-5-RR



## Basic Information

<b>Catalog Number:</b> 85087-5-RR	<b>GenBank Accession Number:</b> BC014433	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2923	<b>CloneNo.:</b> 242735H7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P30101	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> protein disulfide isomerase family A, member 3	
<b>Immunogen Catalog Number:</b> AG8741	<b>Calculated MW:</b> 505 aa, 57 kDa	
	<b>Observed MW:</b> 57 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** A375 cells, HepG2 cells, RAW 264.7 cells, mouse liver tissue, rat liver tissue

**IHC :** human lung cancer tissue,

## Background Information

PDIA3, also named as P58, ER60, ERp57, ERp60, ERp61, GRP57, GRP58 and PI-PLC, is a member of the PDI family, participates in the oxidation, reduction, and isomerization of disulfide bonds for correct folding of secretory proteins before modification and transport in the endoplasmic reticulum. It is associated with apoptosis or inhibition of cancer cell growth. PDIA3 was once thought to be a phospholipase; however, it has been demonstrated that this protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and PDIA3 mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates.

## Storage

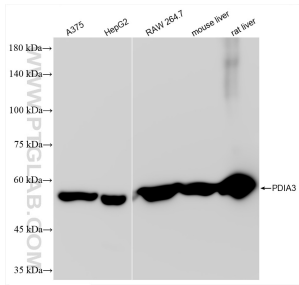
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

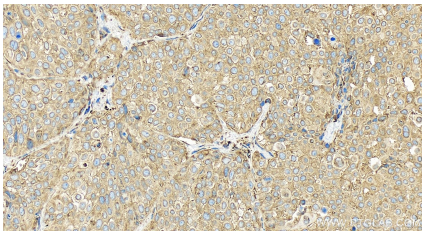
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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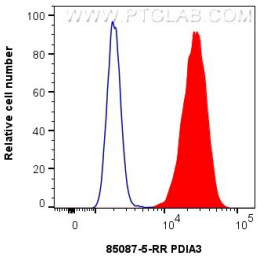
Selected Validation Data



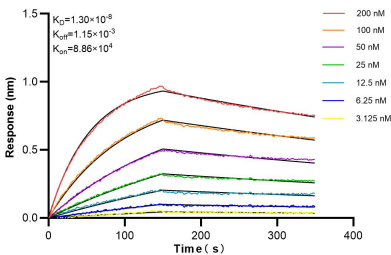
Various lysates were subjected to SDS PAGE followed by western blot with 85087-5-RR (PDIA3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 85087-5-RR (PDIA3 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug PDIA3 Recombinant antibody (85087-5-RR, Clone:242735H7) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 85087-5-RR against Human PDIA3 were performed. The affinity constant is 13.0 nM.