

## RACK1; GNB2L1 Monoclonal antibody

Catalog Number: 66940-1-Ig 7 Publications

## Basic Information

<b>Catalog Number:</b> 66940-1-Ig	<b>GenBank Accession Number:</b> BC019093	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1600 µg/ml	<b>GeneID (NCBI):</b> 10399	<b>CloneNo.:</b> 1E11A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P63244	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	
<b>Immunogen Catalog Number:</b> AG26708	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HeLa cells, pig liver tissue, NIH/3T3 cells, HSC-T6 cells, HepG2 cells, T-47D cells, L02 cells IHC : human lung cancer tissue, IF/ICC : HeLa cells,
<b>Cited Applications:</b> WB, IHC, IF, IP, CoIP	
<b>Species Specificity:</b> Human, Mouse, Rat, Pig	
<b>Cited Species:</b> human, mouse, rat, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions, including cell growth and differentiation, gene expression, hormone secretion and membrane function. RACK1 (receptor for activated protein kinase C 1), encoded by GNB2L1 gene, is a 317 amino acid guanine nucleotide-binding protein subunit beta-2-like 1 protein which is involved in the recruitment, assembly and/or regulation of a variety of signaling molecules, it contains 7 WD-repeats and is implicated in various protein interaction activities. RACK1 is a component of the 40S ribosomal subunit involved in translational repression. Recent finding suggests that RACK1 may be a new promising diagnosis biomarker and therapeutic target for non-small-cell lung cancer (NSCLC).

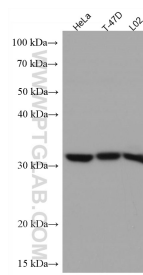
## Notable Publications

Author	Pubmed ID	Journal	Application
Zelong Yang	39292271	Inflamm Res	WB
Lu Li	39207136	J Virol	WB
Tejinder Pal Khaket	39161732	PNAS Nexus	

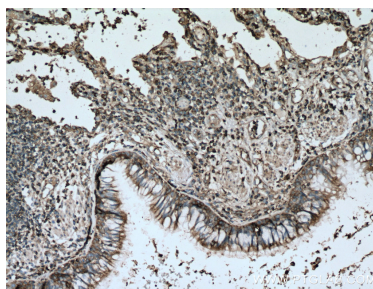
## Storage

**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

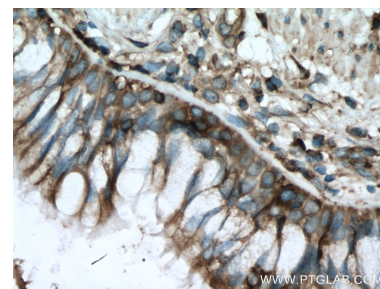
## Selected Validation Data



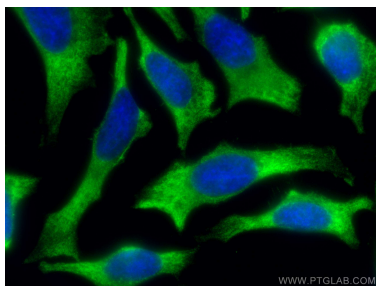
Various lysates were subjected to SDS PAGE followed by western blot with 66940-1-Ig (RACK1; GNB2L1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66940-1-Ig (RACK1; GNB2L1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66940-1-Ig (RACK1; GNB2L1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using RACK1; GNB2L1 antibody (66940-1-Ig, Clone: 1E11A7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).