



Rabbit Anti-RACK1 antibody

SL3647R

Product Name:	RACK1
Chinese Name:	受体激活蛋白激酶C1抗体
Alias:	Cell proliferation-inducing gene 21 protein; GBLP_HUMAN; Gnb2-rs1; Gnb211; Guanine nucleotide binding protein (G protein) beta polypeptide 2 like 1; Guanine nucleotide binding protein beta polypeptide 2 like 1; Guanine nucleotide binding protein beta subunit 2 like 1; Guanine nucleotide binding protein beta subunit like protein 12.3; Guanine nucleotide binding protein subunit beta 2 like 1; Guanine nucleotide binding protein subunit beta like protein 12.3; Guanine nucleotide-binding protein subunit beta-2-like 1; Guanine nucleotide-binding protein subunit beta-like protein 12.3; H12.3; HLC-7; Human lung cancer oncogene 7 protein; lung cancer oncogene 7; OTTHUMP00000223704; OTTHUMP00000223870; OTTHUMP00000223891; OTTHUMP00000223893; OTTHUMP00000223900; OTTHUMP00000223902; OTTHUMP00000223930; OTTHUMP00000223931; PIG21; Proliferation inducing gene 21; Protein homologous to chicken B complex protein guanine nucleotide binding; RACK1; Receptor for activated C kinase 1; Receptor for activated C kinase; Receptor of activated protein kinase C 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	35kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RACK1:221-317/317
Lsotype:	IgG
Purification:	affinity purified by Protein A

Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>RACK1 (receptor for activated C kinase 1) was identified through its binding to various PKC isoforms. Its main function is to recruit PKC and various other proteins to specific location to form multiprotein complexes, mediating various signal pathways.</p> <p>Subunit: Component of the small (40S) ribosomal subunit. Exists as a monomer and also forms oligomers. Binds SLC9A3R1. Forms a ternary complex with TRIM63 and PRKCE. Interacts with HABP4, KRT1 and OTUB1. Interacts with SRC (via SH2 domain); the interaction is enhanced by tyrosine phosphorylation of GNB2L1/RACK1. Recruited in a circadian manner into a nuclear complex which also includes BMAL1 and PRKCA. Interacts with AR. Interacts with IGF1R but not with INSR. Interacts with ADAM12. Interacts with CLEC1B (via N-terminal region) and with HIF1A; the interaction promotes their degradation. Interacts with RHOA; this enhances RHOA activation and promotes cell migration. Interacts with CHRM2; the interaction regulates CHRM2 internalization. Interacts with TRPM6 (via kinase domain). Interacts with PTK2/FAK1; required for PTK2/FAK1 phosphorylation and dephosphorylation. Interacts with FLT1. Interacts with TBXA2R isoform 2. Interacts with HRAS. Interacts with Y.pseudotuberculosis yopK. Interacts with a number of viral proteins including Epstein-Barr virus BZLF1 and HIV-1 Nef; interaction with Nef increases Nef phosphorylation by PKC.</p> <p>Subcellular Location: Cell membrane; Peripheral membrane protein. Cytoplasm. Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton. Nucleus. Perikaryon. Cell projection, dendrite. Cell projection, phagocytic cup.</p> <p>Tissue Specificity: In the liver, expressed at higher levels in activated hepatic stellate cells than in hepatocytes or Kupffer cells. Up-regulated in hepatocellular carcinomas and in the adjacent non-tumor liver tissue.</p> <p>Similarity: Belongs to the WD repeat G protein beta family. Contains 7 WD repeats.</p> <p>SWISS: P63244</p> <p>Gene ID: 10399</p>

Database links:

[Entrez Gene: 417044](#) Chicken

[Entrez Gene: 327682](#) Cow

[Entrez Gene: 10399](#) Human

[Entrez Gene: 14694](#) Mouse

[Entrez Gene: 397605](#) Pig

[Entrez Gene: 83427](#) Rat

[Omim: 176981](#) Human

[SwissProt: P63247](#) Chicken

[SwissProt: P63243](#) Cow

[SwissProt: Q4R7Y4](#) Cynomolgus Monkey

[SwissProt: P63244](#) Human

[SwissProt: P68040](#) Mouse

[SwissProt: P63246](#) Pig

[SwissProt: P63245](#) Rat

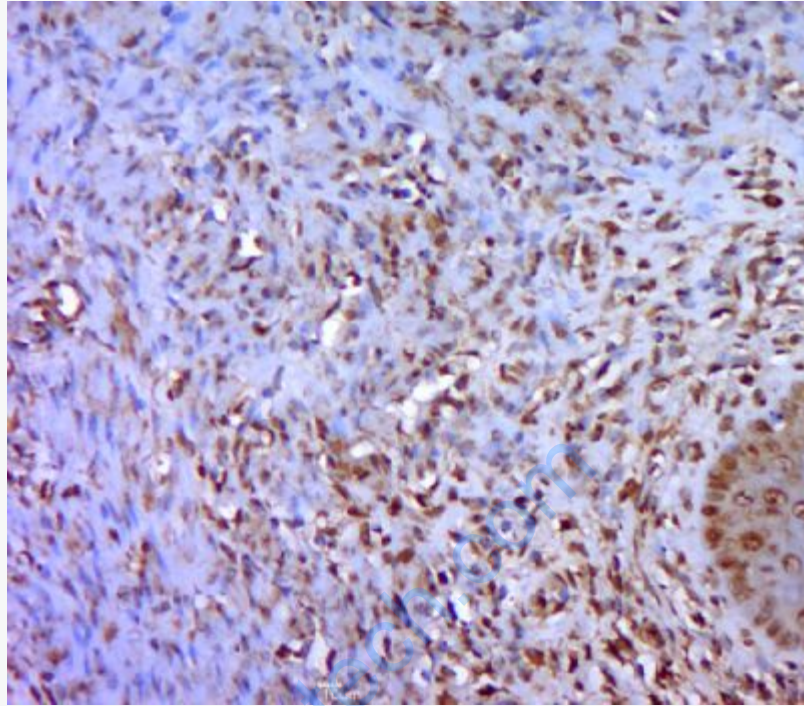
[Unigene: 5662](#) Human

[Unigene: 5305](#) Mouse

[Unigene: 55487](#) Rat

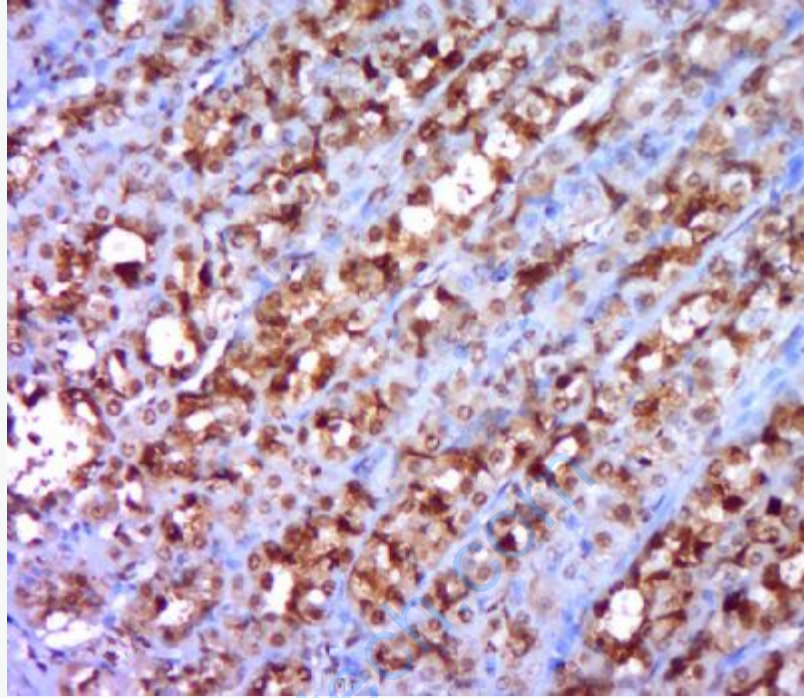
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (rat uterus tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RACK1) Polyclonal Antibody, Unconjugated (SL3647R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RACK1) Polyclonal Antibody, Unconjugated (SL3647R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.