

LDLR Recombinant antibody

Catalog Number: 82724-1-RR

Basic Information

Catalog Number: 82724-1-RR	GenBank Accession Number: BC014514	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 3949	CloneNo.: 1011
Source: Rabbit	ENSEMBL Gene ID: ENSG00000130164	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:200-1:800 IF/ICC: 1:200-1:800
Isotype: IgG	UNIPROT ID: P01130	
Immunogen Catalog Number: AG1236	Full Name: low density lipoprotein receptor	
	Calculated MW: 95 kDa	
	Observed MW: 100-160 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, mouse liver tissue, rat liver tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue,
	IF/ICC : HeLa cells,

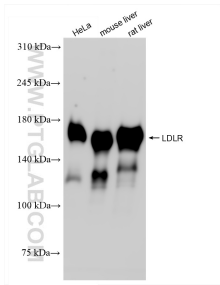
Background Information

LDLR (low density lipoprotein receptor) is a member of the LDL receptor gene family and is involved in receptor-mediated endocytosis of specific ligands. The LDLR is a cell surface glycoprotein that scavenges LDL from the blood and regulates plasma LDL cholesterol. The cytoplasmic domain of the LDL receptor is necessary for the receptor to cluster in coated pits, which promotes the rapid endocytosis of bound LDL. The protein is highly glycosylated through N- and O-linkages and thus migrates at 100 to 160 kDa bands on SDS-PAGE.

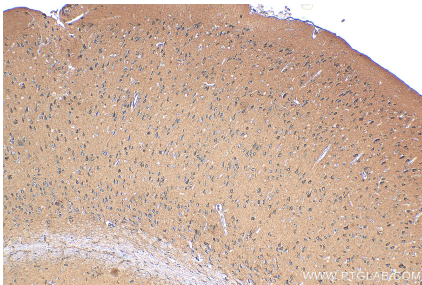
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

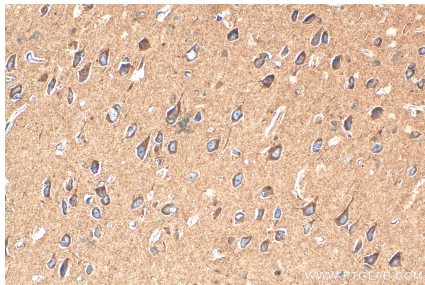
Selected Validation Data



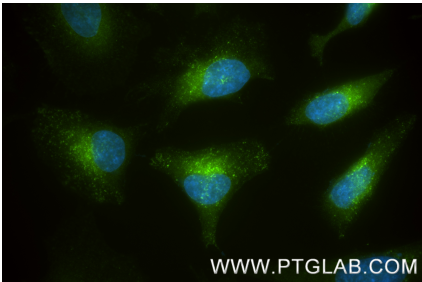
Various lysates were subjected to SDS PAGE followed by western blot with 82724-1-RR (LDLR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



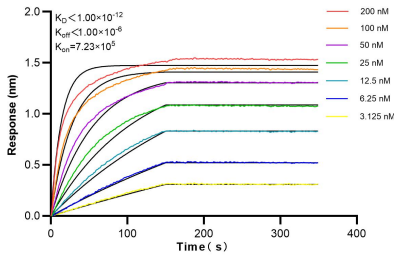
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82724-1-RR (LDLR antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82724-1-RR (LDLR antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using LDLR antibody (82724-1-RR, Clone: 1O11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 82724-1-RR against Human LDLR were performed. The affinity constant is below 1 pM.