10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody

Catalog # ABO13332

Specification

Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, IP, FC**
Primary Accession	Q07954
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody - Additional Information

Gene ID 4035

Other Names
Prolow-density lipoprotein receptor-related protein 1, LRP-1, Alpha-2-macroglobulin receptor, A2MR, Apolipoprotein E receptor, APOER, CD91, Low-density lipoprotein receptor-related protein 1 85 kDa subunit, LRP-85, Low-density lipoprotein receptor-related protein 1 515 kDa subunit, LRP-515, Low-density lipoprotein receptor-related protein 1 intracellular domain, LRPICD, LRP1 (HGNC:6692), A2MR, APR

Calculated MW
504606 MW KDa

Application Details
WB 1:10000-1:20000
IHC 1:50-1:100
ICC/IF 1:50-1:100
IP 1:30
FC 1:50

Subcellular Localization
Low-density lipoprotein receptor-related protein 1 85 kDa subunit: Cell membrane; Single-pass type I membrane protein. Membrane, coated pit.

Tissue Specificity
Most abundant in liver, brain and lung.

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human LRP1

Purification

Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody - Protein Information

Name LRP1 (HGNC:6692)

Synonyms A2MR, APR

Function
Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells (PubMed:11907044, PubMed:12713657). Required for early embryonic development (By similarity). Involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2-macroglobulin), as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. Acts as an LRPAP1 alpha-2- macroglobulin receptor (PubMed:1702392, PubMed:26142438). Acts as TAU/MAPT receptor and controls the endocytosis of TAU/MAPT as well as its subsequent spread (PubMed:32296178). May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:12888553). Acts also as a receptor for IGFBP3 to mediate cell growth inhibition (PubMed:9252371).

Cellular Location
[Low-density lipoprotein receptor-related protein 1 85 kDa subunit]: Cell membrane; Single-pass type I membrane protein Membrane, coated pit [Low-density lipoprotein receptor-related protein 1 intracellular domain]: Cytoplasm Nucleus. Note=After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus.

Tissue Location
Most abundant in liver, brain and lung.

Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-LRP1/Lrp 1 Cluster Ii Rabbit Monoclonal Antibody - Images

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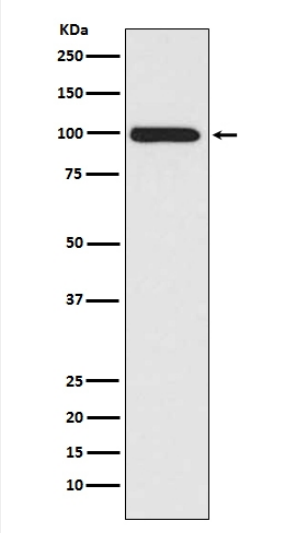
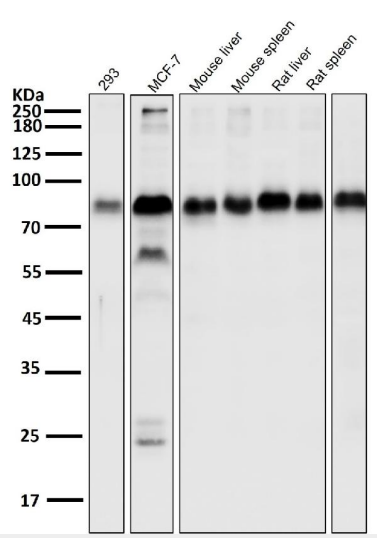
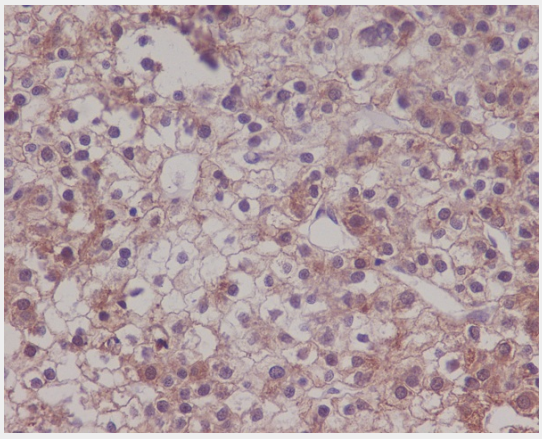


Western blot analysis of LRP1 expression in A549 cell lysate.



All lanes use the Antibody at 1:3W dilution for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded human liver carcinoma, using LRP1 Antibody.

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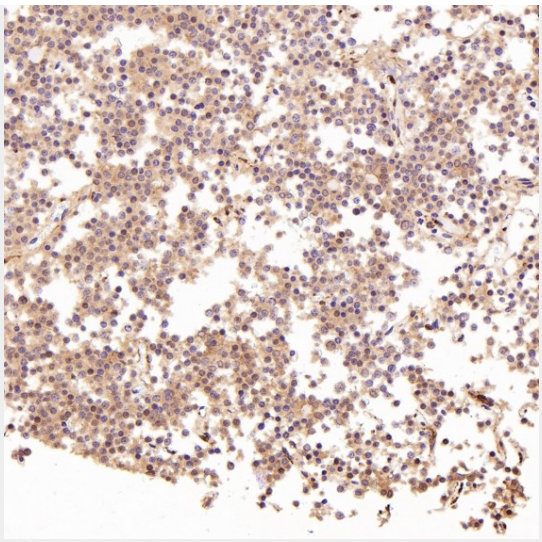
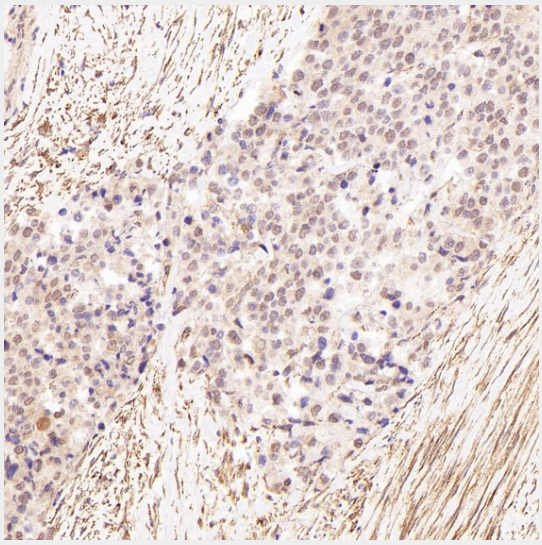
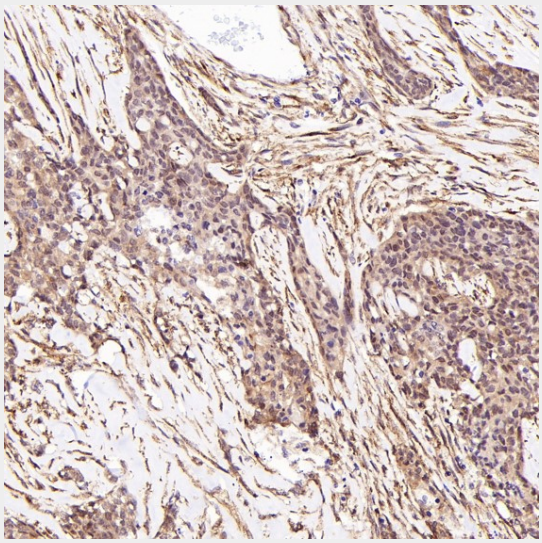


Immunohistochemical analysis of paraffin-embedded Human pituitary tumor, using the Antibody at 1:300 dilution.



Immunohistochemical analysis of paraffin-embedded Human prostate cancer, using the Antibody at 1:300 dilution.



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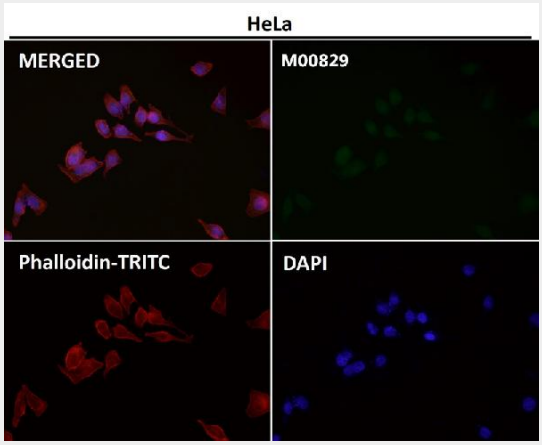
Immunohistochemical analysis of paraffin-embedded Human breast cancer, using the Antibody at 1:300 dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.