Product Datasheet

LRP-1 Antibody (A2Mr alpha-2) - BSA Free
NB100-64808

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 3

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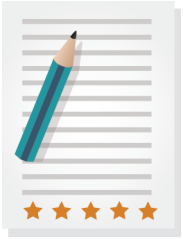
www.novusbio.com/NB100-64808

Updated 2/21/2025 v.20.1



NB100-64808

LRP-1 Antibody (A2Mr alpha-2) - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	A2Mr alpha-2
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS

Product Description

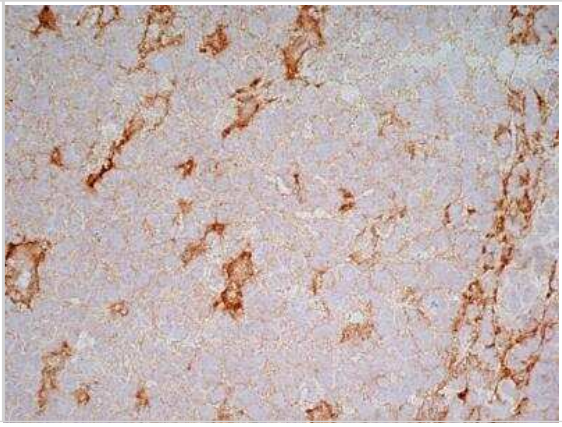
Host	Mouse
Gene ID	4035
Gene Symbol	LRP1
Species	Human
Specificity/Sensitivity	Recognises an epitope in the extracellular region of the 500kD alpha chain.
Immunogen	Purified alpha2 macroglobulin receptor

Product Application Details

Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot Non-reducing conditions, Flow Cytometry 1:50-1:100, ELISA Direct, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	For Flow Cytometry: Use 10 ul of the suggested working dilution to label 10^6 cells in 100 ul. Use non-reducing conditions for western blot.

Images

Immunohistochemistry: LRP-1 Antibody (A2Mr alpha-2) [NB100-64808] - Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 followed by the Histar detection system. High power.



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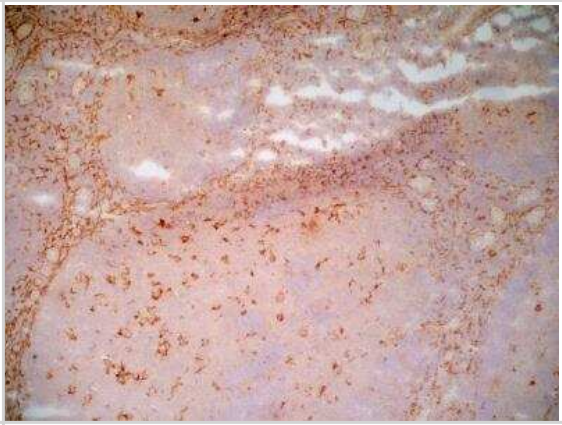
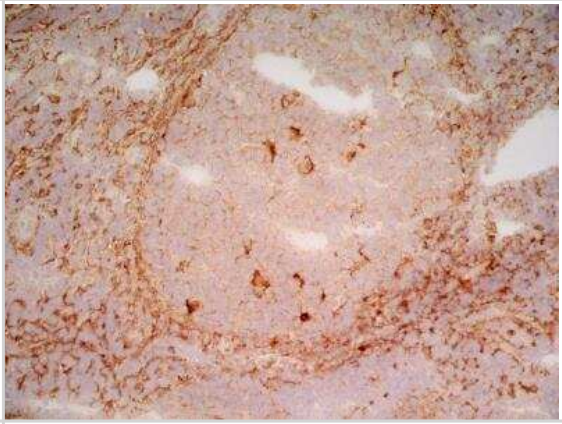
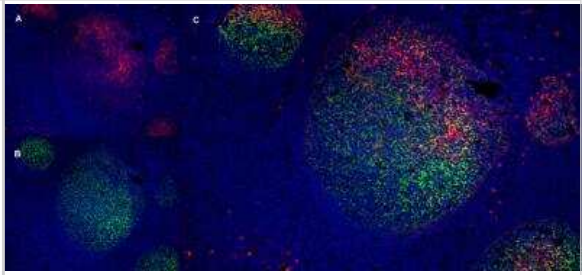
Immunohistochemistry: LRP-1 Antibody (A2Mr alpha-2) [NB100-64808] - Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 followed by the Histar detection system. Medium power.	
Immunohistochemistry: LRP-1 Antibody (A2Mr alpha-2) [NB100-64808] - Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2 followed by the Histar detection system. Medium power.	
Immunofluorescence: LRP-1 Antibody (A2Mr alpha-2) [NB100-64808] - Staining of a human tonsil cryosection with Mouse anti Human CD91 antibody, clone A2Mr alpha-2, red in A and Mouse anti Human CD21, clone LB21, green in B. C is the merged image with nuclei counterstained blue using DAPI. Low power.	

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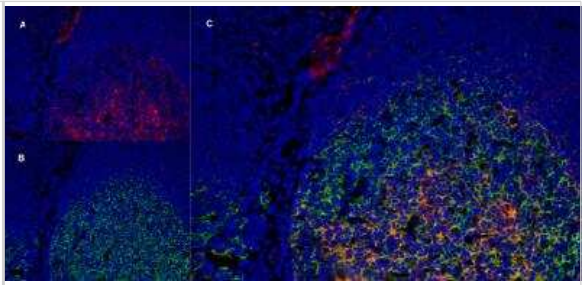

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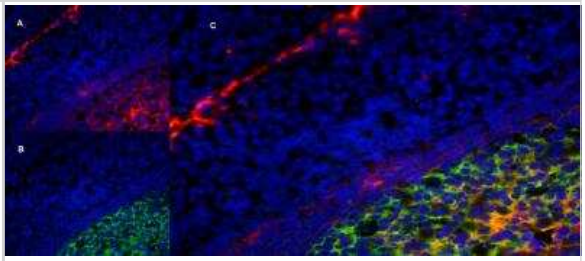
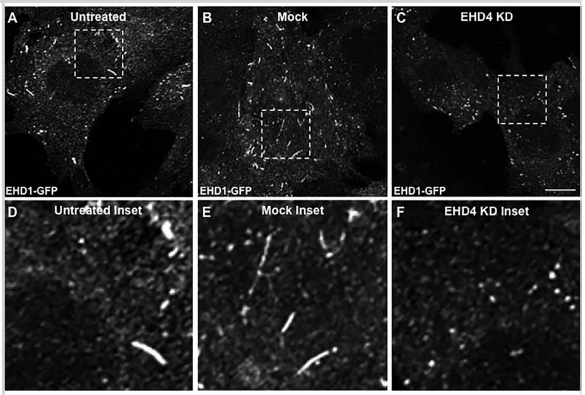
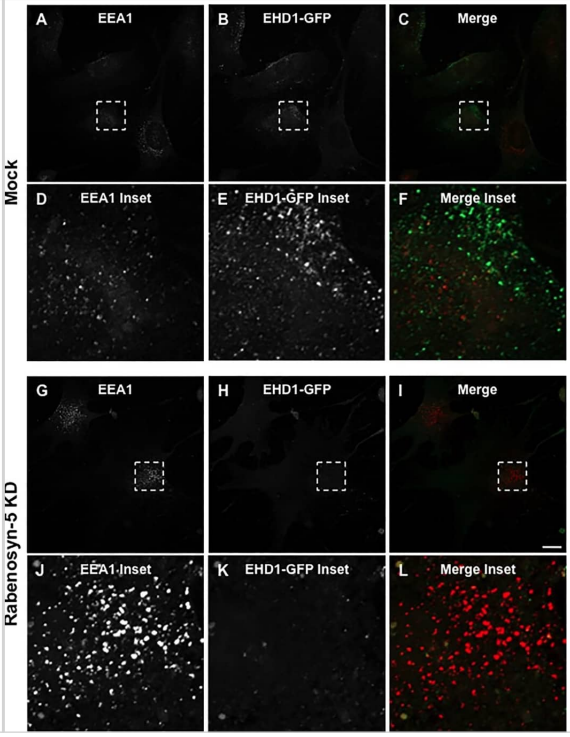


Immunocytochemistry/ Immunofluorescence: LRP-1 Antibody (A2Mr alpha-2) [NB100-64808] - Reduced EHD1 recruitment to endosomes upon EHD4 knock-down.A-F, Representative micrographs & insets depicting EHD1-GFP recruitment to endosomes in untreated (A & inset in D), mock-treated (B & inset in E), & EHD4 knock-down (C & inset in F) cells. CRISPR/Cas9 gene-edited NIH3T3 cells expressing endogenous levels of EHD1 with GFP fused to the C-terminus (EHD1-GFP) were either untreated, mock-treated with transfection reagent, or transfected with EHD4 siRNA for 72 h. Cells were then incubated with anti-LRP1 antibody (30 min on ice, 30 min at 37°C), fixed, & imaged via confocal microscopy. G, Immunoblot showing reduced EHD4 (but not EHD1-GFP) expression in EHD1-GFP cells, with actin used as a loading control. The nitrocellulose filter paper was then stripped & immunoblotted with anti-GFP to show EHD1-GFP expression upon EHD4 loss. H, Graph depicting the mean count of EHD1-labeled endosomes in untreated, mock-treated & EHD4-depleted cells. Individual experiments were performed 3 times. Error bars denote standard deviation & p-values were determined by one-way ANOVA for individual experiments using a post-hoc Tukey HSD calculator to determine significance. A consensus p-value was then derived as described in the Materials & methods to assess significant differences between samples from the 3 experiments. Micrographs are representative orthogonal projects from three independent experiments, with 10 sets of z-stacks collected for each treatment per experiment Bar, 10 µm. n.s., not significant (consensus p > 0.5). Consensus p-values from Tukey HSD: *p < 0.00001. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32966336), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: LRP-1 Antibody (A2Mr alpha-2) [NB100-64808] - Increased sorting endosome size & decreased EHD1 recruitment upon Rabenosyn-5 knock-down.A-L, Representative micrographs & insets depicting EEA1-labeled endosomes & EHD1-GFP in mock-treated & Rabenosyn-5 knock-down cells. CRISPR/Cas9 gene-edited NIH3T3 EHD1-GFP cells were either mock-treated with transfection reagent (A-F) or treated with Rabenosyn-5 siRNA (G-L) for 72 h. Cells were then incubated with anti-LRP1 antibody (30 min on ice, 30 min at 37°C), fixed & immunostained using anti-EEA1, & imaged by confocal microscopy. M, Immunoblot showing reduced Rabenosyn-5 expression in EHD1-GFP NIH3T3 cells. N, Graph depicting mean endosome size of mock-treated & Rabenosyn-5 knock-down cells. O, Graph depicting EHD1 recruitment to endosomes in mock-treated & Rabenosyn-5 knock-down cells. Error bars denote standard deviation & p-values were determined by independent two-tailed t-test, with significance derived from consensus p-values from the 3 experiments. Micrographs are representative orthogonal projections from three independent experiments, with 10 sets of z-stacks collected for each treatment per experiment. Bar, 10 µm. **p < 0.00001. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32966336), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yashchenko A, Bland SJ, Song CJ et al. Cx3cr1 controls kidney resident macrophage heterogeneity Frontiers in immunology 2023-05-15 [PMID: 37256130] (FLOW, Mouse)

Jones T, Naslavsky N, Caplan S Eps15 Homology Domain Protein 4 (EHD4) is required for Eps15 Homology Domain Protein 1 (EHD1)-mediated endosomal recruitment and fission PLoS ONE 2020-09-23 [PMID: 32966336] (KD, ICC/IF, Mouse)

Dhawan K, Naslavsky N, Caplan S. Sorting nexin 17 (SNX17) links endosomal sorting to Eps15 Homology Domain Protein 1 (EHD1)-mediated fission machinery J. Biol. Chem. 2020-02-10 [PMID: 32041776]

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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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