

Product Datasheet

EXOC2 Antibody - BSA Free

NBP1-83786

Unit Size: 0.1 ml

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

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Publications: 1

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NBP1-83786

EXOC2 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

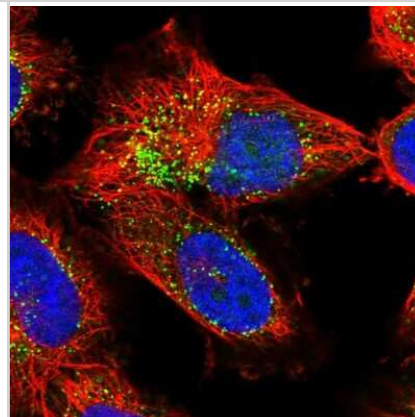
Product Description	
Description	Novus Biologicals Rabbit EXOC2 Antibody - BSA Free (NBP1-83786) is a polyclonal antibody validated for use in ICC/IF. Anti-EXOC2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	55770
Gene Symbol	EXOC2
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: IIVTTKSGGRGTSTVSFKLLKPEKIGILDQSAVWVDEMNYDMRTDRNKGIPPLS LRPANPLGIEIEKSKFSQKDLEMLFHGMSADFTS

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml
Application Notes	ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

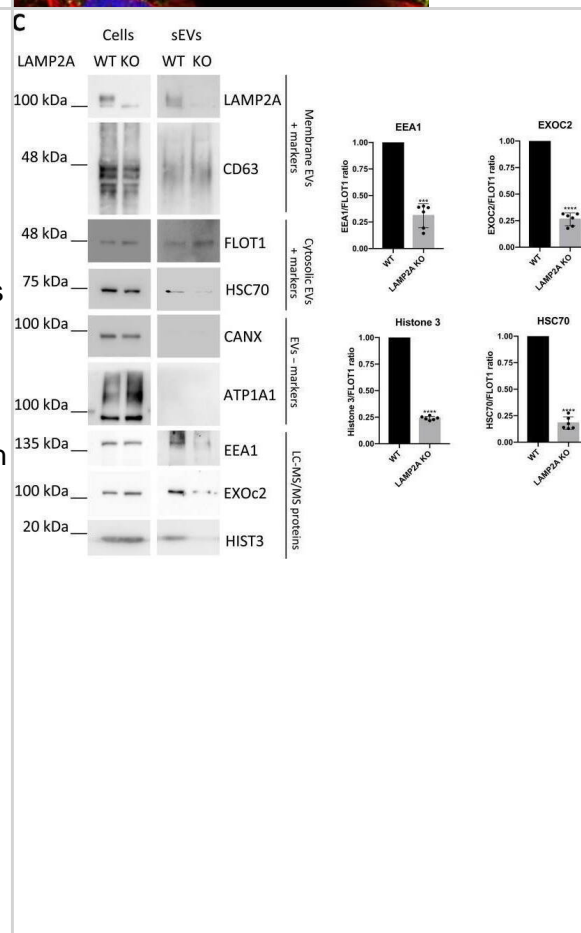


Images

Immunocytochemistry/Immunofluorescence: EXOC2 Antibody [NBP1-83786] - Staining of human cell line U-251 MG shows positivity in vesicles.



LAMP2A KO leads to the down-regulation of KFERQ-containing proteins in sEVs. (A) Schematic representation of LAMP2 genomic sequence. There are three isoforms of LAMP2 (A, B, and C) originated by the alternative splicing of exon 9. In red is the exon for the LAMP2A isoform. ARPE-19 cells were cultured in exosome-depleted medium. sEVs were isolated from cell culture supernatants. (B) TEM images show isolated exosomes. Graphs show particle number and size using nanoparticle tracking system (NanoSight). LAMP2A KO maintains particle size and number. (C) WB of cell extracts and sEV fractions blotted with antibodies raised against membrane EV-positive markers (CD63 and LAMP2A), cytosolic EV-positive markers (HSC70 and FLOT1), EV-negative markers [CANX (calnexin) and ATP1A1 (ATPase Na⁺/K⁺ Transporting Subunit Alpha 1)], and KFERQ-containing proteins. LAMP2A KO leads to a decrease in the protein levels of EEA1, EXOC2, and histone 3, which contain at least one KFERQ motif each, as well as HSC70. (D) Raw MS/MS fragmentation spectrum of the peptide HHHAGYEQF, exclusively from LAMP2 isoform A, present only in WT samples. (E) Schematic representation shows the rules for the identification of putative KFERQ motifs. Graph shows the percentage of proteins with at least one KFERQ motif in their sequence that is present in sEVs. (F) Heatmaps of down-regulated proteins in sEVs after LAMP2A KO. Down-regulated proteins (67%) contain KFERQ motifs. All samples were analyzed under the same experimental conditions. The results represent means \pm SD of at least $n = 3$ independent experiments (** $P < 0.001$ and **** $P < 0.0001$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35333565>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Ferreira JV, da Rosa Soares A, Ramalho J et al. LAMP2A regulates the loading of proteins into exosomes Science Advances 2022-03-25 [PMID: 35333565]



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Products Related to NBP1-83786

NBP1-83786PEP	EXOC2 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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