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EB09295 - Goat Anti-LIMP2 / SCARB2 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: SCARB2, scavenger receptor class B, member 2, AMRF, CD36L2, HLGP85, LIMPII, SR-BII, 85 kDa lysosomal sialoglycoprotein scavenger receptor class B, member 2, CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2 (lysosomal integral membrane protein II), lysosomal integral membrane protein II, EPM4, LGP85, LIMP-2, 85 kDa lysosomal membrane sialoglycoprotein, CD36 antigen-like 2, LIMP II, scavenger receptor class B member 2
Official Symbol: SCARB2
Accession Number(s): NP_005497.1
Human GeneID(s): 950
Non-Human GeneID(s): 12492 (mouse)
Important Comments: This antibody is expected to recognize reported isoform 1 (NP_005497.1) only.

Immunogen

Peptide with sequence C-NKANIQFGDNGTTIS, from the internal region of the protein sequence according to NP_005497.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:4000.
Western blot: Approx. 80kDa band observed in Human Cerebral Cortex lysates and in preliminary testing of Human Thyroid lysate and U251 cell lysate (calculated MW of 54.3kDa according to NP_005497.1). This molecular weight is observed in the literature (Fujita et al, 1992, PMID: 1374238) and by other commercial sources. Recommended concentration: 0.03-0.1µg/ml. Primary incubation 1 hour at room temperature. This antibody has been successfully used in WB on Human: Murphy KE et al. (2014) PMID: 24477431.
IHC: In paraffin embedded Human Cerebral Cortex shows lysosomal staining. Recommended concentration: 3-5µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of U251 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of U251 cells. Recommended concentration: 10ug/ml.

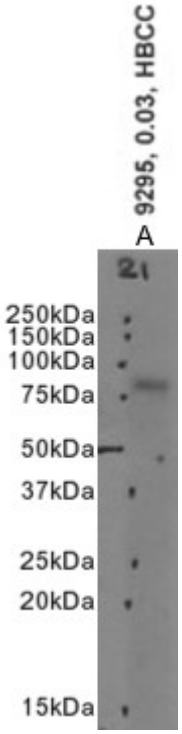
Species Reactivity

Tested: Human
Expected from sequence similarity: Human

Specific Reference

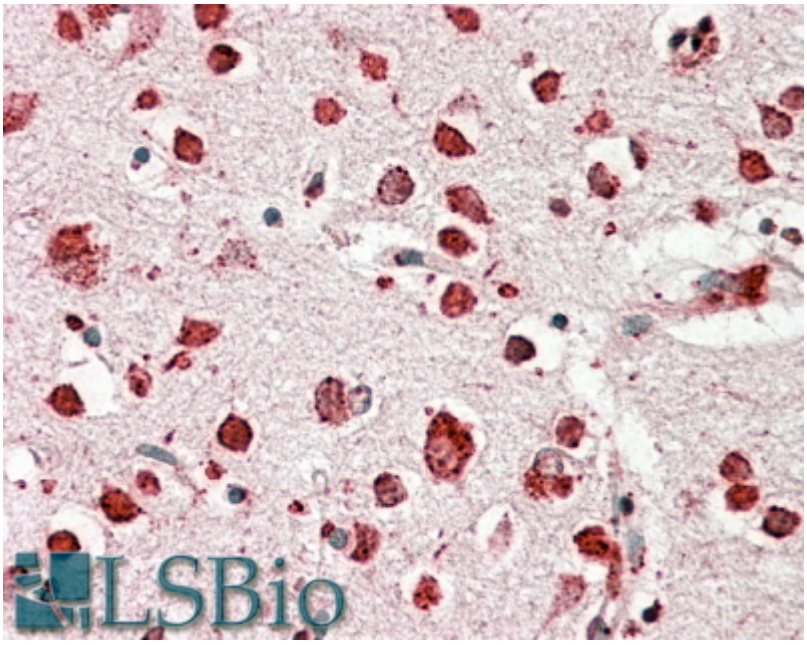
This antibody has been successfully used in Western blot on Human:

Murphy KE, Gysbers AM, Abbott SK, Tayebi N, Kim WS, Sidransky E, Cooper A, Garner B, Halliday GM.
Reduced glucocerebrosidase is associated with increased α-synuclein in sporadic Parkinson's disease.
Brain. 2014 Mar;137(Pt 3):834-48.
PMID: 24477431

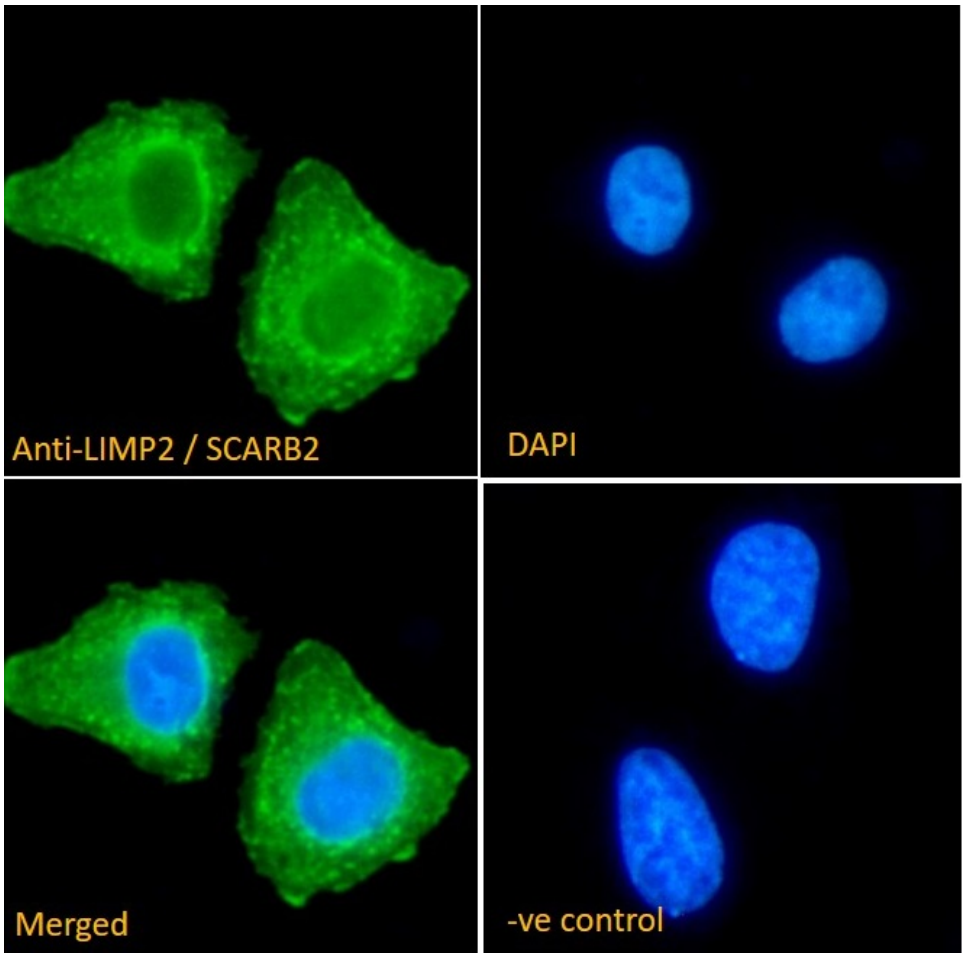


EB09295 optimised QC. Primary incubation 1 hour at room temperature.

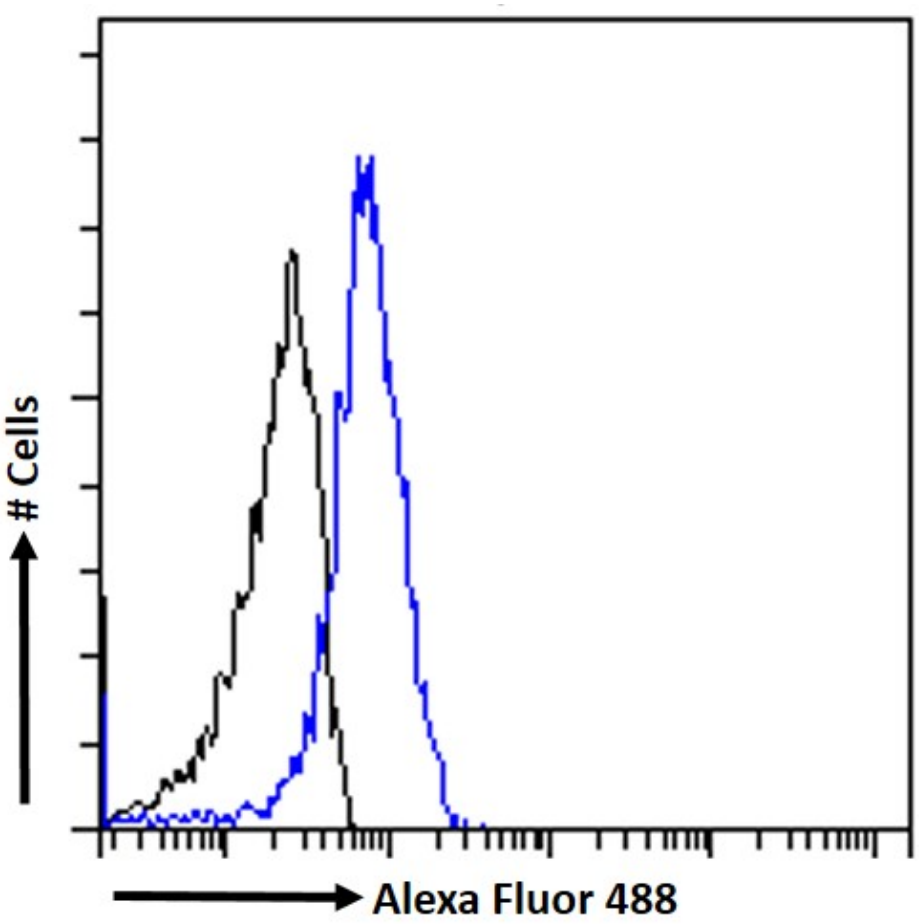
Image A: Human Cerebral Cortex lysate at primary Ab concentration 0.03ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB09295 (3.8µg/ml) staining of paraffin embedded Human Cerebral Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09295 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09295 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.