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**Research Use Only. Not
for diagnostic or
therapeutic use.**

Storage: Aliquot and store at
-20°C. Minimize freezing and
thawing.

Product: EB08613 – Goat anti-ABCA2 antibody

*This product is one of a range of **Investigative Grade** antibodies, made against targets that have limited or no commercial antibodies available to them and for which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot (see Application Notes below). However no additional claims are made for their ability to recognise native protein in any application.*

Target Protein

Principal Names: ABCA2; ATP-binding cassette, sub-family A (ABC1), member 2; ABC2; MGC129761; ATP-binding cassette, sub-family A, member 2; OTTHUMP00000064733

Official Gene Symbol: ABCA2

Accession Number(s): NP_001597.2; NP_997698.1

Human Gene ID(s): 20

Non-Human GeneID(s): 11305 (mouse); 79248 (rat);

This antibody is expected to recognize both reported isoforms (NP_001597.2; NP_997698.1).

Immunogen

Peptide with sequence C-KKQSDNLEQQETEP, from the internal region of the protein sequence according to NP_001597.2; NP_997698.1

Purification

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied as 100 µg of purified antibody. 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:2,000. Western Blot: Preliminary experiments gave an approx 35kDa band in Human Brain (Amygdala, Frontal Cortex, Hippocampus and Substantia Nigra) lysates after 0.3µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 270kDa according to NP_001597.2 and of 273kDa according to .NP_997698.1. The 35kDa band was successfully blocked by incubation with the immunizing peptide. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

Species Reactivity

Tested:

Expected from sequence similarity: Human, Mouse, Rat

Background Reference

Macé S, Cousin E, Ricard S, Génin E, Spanakis E, Lafargue-Soubigou C, Génin B, Fournel R, Roche S, Haussy G, Massey F, Soubigou S, Bréfort G, Benoit P, Brice A, Campion D, Hollis M, Pradier L, Benavides J, Deleuze JF

ABCA2 is a strong genetic risk factor for early-onset Alzheimer's disease
Neurobiol Dis. 2005 Feb;18(1):119-25

PMID: 15649702

