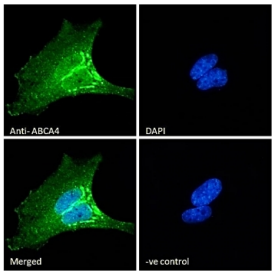
ABCA4 Antibody / ATP-binding cassette sub-family A member 4 (R36498)

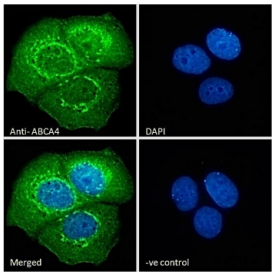
Catalog No.	Formulation	Size
R36498-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
UniProt	P16284
Localization	Membrane, ER, Cytoplasmic vesicles
Applications	Immunofluorescence : 10ug/ml ELISA (peptide) LOD : 1:128000
Limitations	This ABCA4 antibody is available for research use only.



Immunofluorescent staining of fixed and permeabilized human HeLa cells with ABCA4 antibody (green) at 10ug/ml and DAPI nuclear stain (blue).



Immunofluorescent staining of fixed and permeabilized human MCF7 cells with ABCA4 antibody (green) at 10ug/ml and DAPI nuclear stain (blue).

Description

The ABCA4 protein is a transporter molecule responsible for moving retinal molecules across cell membranes in the eye and may have a broader impact on neurological processes. Research has shown that this protein is not restricted to the eyes, but is also present in various regions of the brain. ABCA4 plays a role in the maintenance of lipid homeostasis in the central nervous system. Lipids are essential components of cell membranes and are crucial for neuronal function. Disruptions in lipid metabolism have been implicated in numerous neurological disorders, including Alzheimer's disease and Parkinson's disease. ABCA4 has been found to interact with other proteins involved in synaptic transmission and neuronal signaling. This suggests that the protein may play a role in modulating communication between neurons, which is essential for cognitive function.

Application Notes

Optimal dilution of the ABCA4 antibody should be determined by the researcher.

Immunogen

Amino acids KQQTESHDLPLHPR were used as the immunogen for this ABCA4 antibody.

Storage

Aliquot and store the ABCA4 antibody at -20oC.