Human Orexin R2/HCRTR2 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 456723

Catalog Number: FAB52461G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Orexin R2/HCRTR2. In flow cytometry, stains human Orexin R2/HCRTR2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2B} Clone # 456723
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Orexin R2/HCRTR2 Met1-Trp444 Accession # AAC39602
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Orexin R2 (Orexin Receptor 2), also known as HCRTR2 (Hypocretin Receptor 2) or OX2R is a 40 kDa 7-transmembrane G-protein-coupled glycoprotein that is a high affinity receptor for orexins A and B (hypocretins 1 and 2). In mouse brain, engagement of Orexin Rs/HCRTRs promotes wakefulness, such that absence of either orexins or their receptors creates a narcolepsy-like state. It also influences reward circuits involving food or addictive drugs. The extracellular portions of human Orexin R2/HCRTR2 share 92% and 93% aa identity with corresponding portions of mouse and rat Orexin R2/HCRTR2, respectively.

PRODUCT SPECIFIC NOTICES

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