Human/Mouse Orexin R2/HCRTR2 APC-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 456738

Catalog Number: IC5246A

25 TESTS

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Orexin R2/HCRTR2. Stains human and mouse Orexin R2/HCRTR2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2A} Clone # 456738
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	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

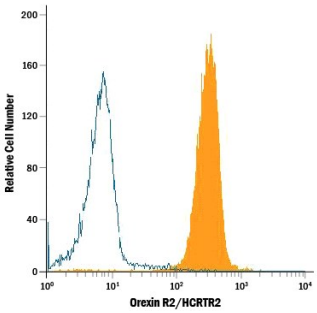
APPLICATIONS

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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

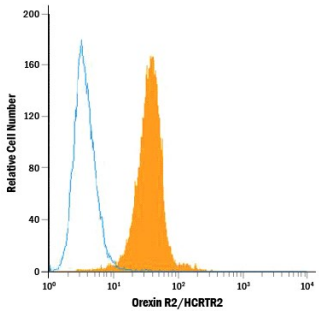
DATA

Intracellular Staining by Flow Cytometry



Detection of Orexin R2/HCRTR2 in A172 Human Cell Line by Flow Cytometry. A172 human glioblastoma cell line was stained with Mouse Anti-Human/Mouse Orexin R2/HCRTR2 APC-conjugated Monoclonal Antibody (Catalog # IC5246A, filled histogram) or isotype control antibody (Catalog # IC003A, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

Intracellular Staining by Flow Cytometry



Detection of Orexin R2/HCRTR2 in Neuro-2A Mouse Cell Line by Flow Cytometry. Neuro-2A mouse neuroblastoma cell line was stained with Mouse Anti-Human/Mouse Orexin R2/HCRTR2 APC-conjugated Monoclonal Antibody (Catalog # IC5246A, filled histogram) or isotype control antibody (Catalog # IC003A, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

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

Hypocretin Receptor 2 (HCRTR2), also known as Orexin 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 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 HCRTR2 share 92% and 93% aa identity with corresponding portions of mouse and rat HCRTR2, respectively.

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