

DESCRIPTION

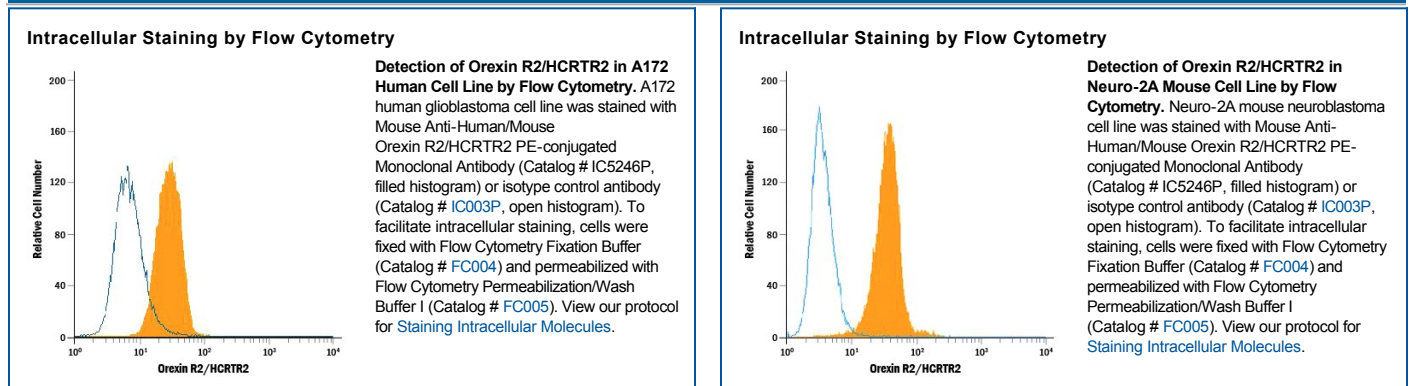
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Orexin R2/HCRT2. Stains human and mouse Orexin R2/HCRT2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 456738
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Orexin R2/HCRT2 Met1-Trp444 Accession # AAC39602
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Hypocretin Receptor 2 (HCRT2), 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 HCRTs 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 HCRT2 share 92% and 93% aa identity with corresponding portions of mouse and rat HCRT2, respectively.