

DESCRIPTION

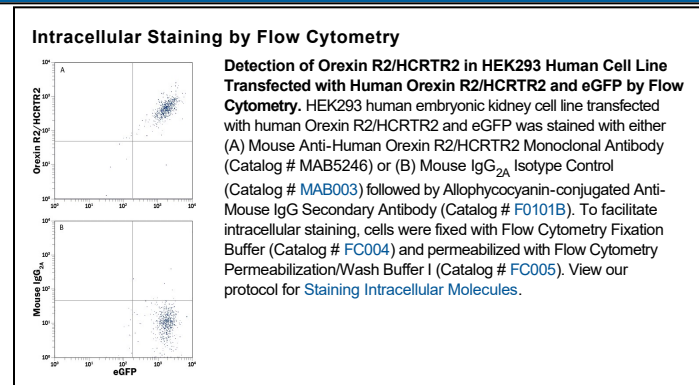
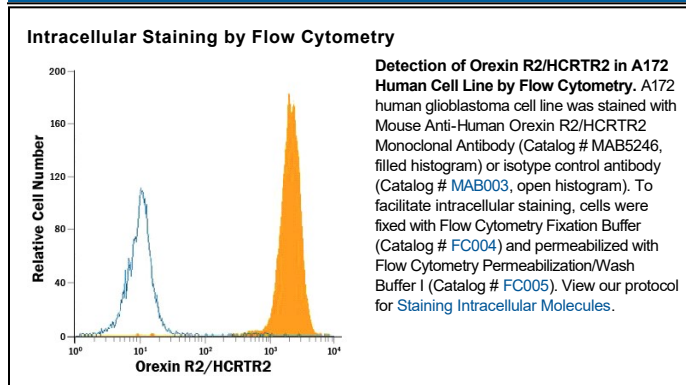
Species Reactivity	Human
Specificity	Detects human Orexin R2/HCRTR2. Stains human Orexin R2/HCRTR2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 456738
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Orexin R2/HCRTR2 Met1-Trp444 Accession # AAC39602
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.