

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Histamine H1 R. Stains human Histamine H1 R transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 480054
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human Histamine H1 R Met1-Ser487 Accession # AAH60802
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	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.

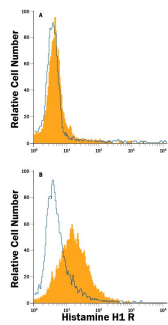
## APPLICATIONS

**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
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA

### Flow Cytometry



**Detection of Histamine H1 R in U937 human histiocytic lymphoma cell line activated with PMA by Flow Cytometry.** U937 human histiocytic lymphoma cell line, resting (A) or (B) activated with PMA, was stained with Mouse Anti-Human Histamine H1 R PE-conjugated Monoclonal Antibody (Catalog # FAB4726P, filled histograms) or isotype control antibody (Catalog # IC002P, open histograms). View our protocol for [Staining Membrane-associated Proteins](#).

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Histamine H1 R (HRH1) is a 60 kDa, 487 aa G-protein coupled 7-transmembrane putative glycoprotein. It is implicated in the pathogenesis of asthma and is a major pharmaceutical target for antihistamines. It has been detected as a mixture of monomers and homodimers, with highest concentration in the placenta, followed by brain, lung (produced by airway smooth muscle, bronchial epithelium and macrophages) and other tissues. Extracellular domains of human HRH1 share 72% aa sequence identity with corresponding regions of mouse or rat HRH1.