

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects Melanocortin 3R/MC3R in direct ELISAs and Western blots. Stains mouse Melanocortin 3R/MC3R-transfected cells but not irrelevant transfectants.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 345404
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Y3 rat myeloid cell line transfected with mouse Melanocortin 3R/MC3R
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse Melanocortin 3R/MC3R transfected HEK293 cells

**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**

Mouse Melanocortin 3R (MC3R) is a member of the melanocortin receptor family. The 323 amino acid G-protein-coupled 7-transmembrane glycoprotein is expressed in the brain where, along with MC4R, it binds α, β and γ melanocyte stimulating hormones and is involved in regulating energy balance. MC3R is also expressed by macrophages and plays an anti-inflammatory role in the heart and other tissues. Of the 69 aa that are extracellular, mouse MC3R shares 91% and 78% sequence identity with rat and human MC3R, respectively.

**PRODUCT SPECIFIC NOTICES**

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