

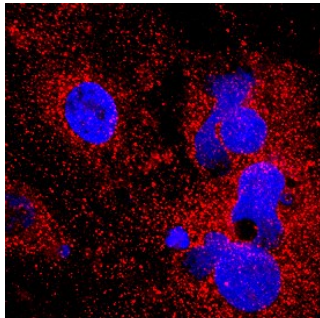
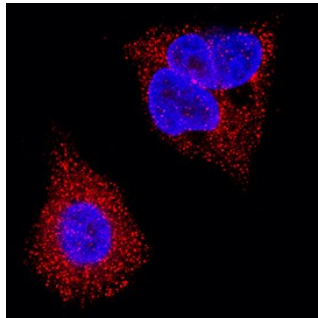
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human ORM-2 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 959445
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ORM-2 Met1-Glu201 Accession # P19652
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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS

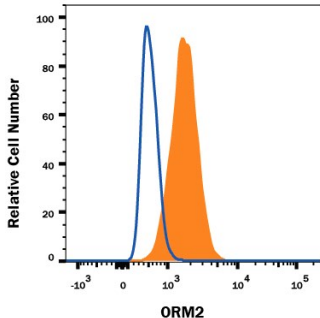
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	5-25 µg/mL	See Below
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

<p>Immunocytochemistry</p>  <p>ORM2 in BG01V Human Embryonic Stem Cells. ORM2 was detected in immersion fixed BG01V human embryonic stem cells differentiated into hepatocytes using Mouse Anti-Human ORM2 Monoclonal Antibody (Catalog # MAB9306) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.</p>	<p>Immunocytochemistry</p>  <p>ORM2 in HepG2 Human Cell Line. ORM2 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse Anti-Human ORM2 Monoclonal Antibody (Catalog # MAB9306) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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Intracellular Staining by Flow Cytometry



Detection of ORM2 in HepG2 Human Cell Line by Flow Cytometry. HepG2 human hepatocellular carcinoma cell line was stained with Mouse Anti-Human ORM2 Monoclonal Antibody (Catalog # MAB9306, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). 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

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

Orosomuroid 2 (ORM2) belongs to the family of lipocalin cytosolic fatty-acid binding proteins. ORM2 is a key acute phase plasma protein. Because of its increase due to acute inflammation, this protein is classified as an acute-phase reactant. ORM2 may play a role in immunosuppression.