

DESCRIPTION

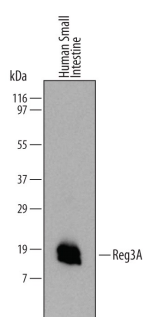
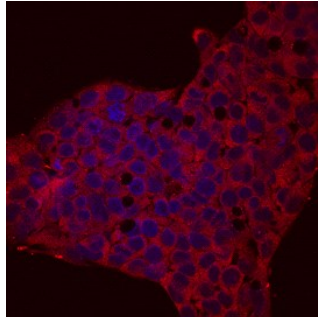
Species Reactivity	Human
Specificity	Detects human Reg3A in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 512124
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Reg3A Glu27-Asp175 Accession # Q06141
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
Western Blot	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human Reg3A by Western Blot. Western blot shows lysates of human small intestine tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Reg3A Monoclonal Antibody (Catalog # MAB5965) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Reg3A at approximately 17 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>Reg3A in HepG2 Human Cell Line. Reg3A was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse Anti-Human Reg3A Monoclonal Antibody (Catalog # MAB5965) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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

Reg3A, also named Pancreatitis-Associated Protein (PAP) and peptide 23, belongs to the Regenerating gene family (Reg), within the superfamily of C-type lectins. It has been classified as a member of the type III subclass of the Reg family. Reg3A has anti-apoptotic effects on pancreatic acinar cells and is a novel motor and sensory neuron survival factor.