

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Reg1A in Western blots. Shows 5% cross-reactivity with recombinant human (rh) Reg1B and no cross-reactivity with rhReg3A, recombinant mouse Reg1, or recombinant rat Reg1.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 431202
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Reg1A Gln23-Asn166 Accession # P05451
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *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>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	AGS human gastric adenocarcinoma cell line fixed with paraformaldehyde and permeabilized with saponin

## 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

Reg1A, also known as PTP, PSP, and lithostathine, is a member of the Reg family of secreted proteins with a C-type lectin domain. Due to variable glycosylation, pancreatic Reg1A exists as multiple species of 16-18 kDa. Reg1A promotes the maintenance and growth of pancreatic islet β-cells and intestinal villi. It is up-regulated in pancreatitis and some carcinomas. Reg1A is an antigenic target in autoimmune diabetes. Human Reg1A shares 65%-68% aa sequence identity with mouse and rat Reg1A.

## PRODUCT SPECIFIC NOTICES

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