

Human Reg3A Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5940

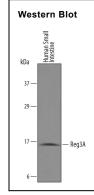
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Reg3A in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) Reg3G, recombinant mouse (rm) Reg3A, rmReg3B and recombinant rat Reg2 is observed and less than 2% cross-reactivity with rhReg1A, rhReg1B, rmRegIV, rmReg2 and rmReg3D.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-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 either lyophilized or 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 1	I μg/mL	See Below

Data



Detection of Human Reg3A by Western Blot. Western blot shows lysates of human small intestine tissue. PVDF membrane was probed with 1 µg/mL of Human Reg3A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5940) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). 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 8.

PREPARATION AN	D STORAGE
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Reconstitution	Reconstitute at 0.2 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.

- 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 (regenerating gene IIIa) is a secreted, 17 kDa, type III member of the Reg family, C-type lectin superfamily of proteins. It is expressed in intestine and exocrine pancreas, where it may have a protective effect against infection and TNF-α-induced stress. Mature mouse Reg3A is 149 amino acids (aa) in length (aa 27-175). It is essentially a soluble C-type lectin domain (aa 40-173). There are four type III genes (α-δ) in the mouse Reg3A has less that 60% aa identity to β-δ. Mature mouse Reg3A is 87% and 61% aa identical to rat and human Reg3A, respectively.

Rev. 2/6/2018 Page 1 of 1

