

DESCRIPTION

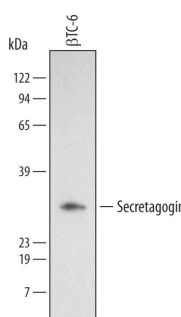
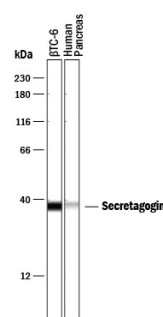
Species Reactivity	Human/Mouse/Rat
Specificity	Detects mouse Secretagogen in Western blots. Reactivity with human, rat, and other species is expected due to the high sequence homology of the immunogen used.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Secretagogen Asn164-Pro276 Accession # O76038
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	1 µg/mL	See Below
Simple Western	10 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse/Rat Secretagogen by Western Blot. Western blot shows lysates of βTC-6 mouse beta cell insulinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat Secretagogen Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4878) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Secretagogen at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Simple Western</p>  <p>Detection of Human and Mouse Secretagogen by Simple Western™. Simple Western lane view shows lysates of βTC-6 mouse beta cell insulinoma cell line and human pancreas tissue, loaded at 0.2 mg/mL. A specific band was detected for Secretagogen at approximately 38 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse/Rat Secretagogen Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4878) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p>
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PREPARATION AND STORAGE

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. <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

Secretagogen (SCGN) is a 32 kDa member of the EF-hand family of Ca-binding proteins. It is expressed in select neurons, as well as neuroendocrine cells and pancreatic islets. Human Secretagogen is 276 amino acids (aa) in length and contains six 35 aa EF-hand domains (aa 12-276). There is one alternative splice variant that shows a 22 aa substitution for aa 28-276, and which demonstrates no Ca-binding ability. Secretagogen is known to circulate, presumably released during cell apoptosis. Over aa 164-276, human Secretagogen is more than 97% aa identical to mouse, porcine and canine Secretagogen.