

DESCRIPTION

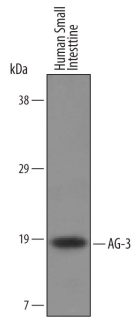
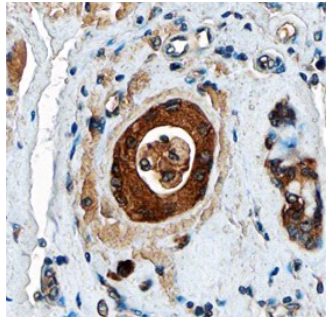
Species Reactivity	Human
Specificity	Detects human AG-3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human AG-2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E.coli</i> -derived Recombinant Human AG-3 Ile22-Leu166 Accession # Q8TD06
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	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human AG-3 by Western Blot. Western blot shows lysates of human small intestine tissue. PVDF Membrane was probed with 0.5 µg/mL of Human AG-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6307) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for AG-3 at approximately 19kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 1</i>.</p>	<p>Immunohistochemistry</p>  <p>AG-3 in Human Breast. AG-3 was detected in immersion fixed paraffin-embedded sections of human breast using Sheep Anti-Human AG-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6307) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cells. View our protocol for <i>Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</i>.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

AG3 (Anterior gradient protein 3; also known as AGR3 and BCMP11) is a 17 kDa (predicted) member of the AGR family of proteins. It is expressed by intestinal epithelial and breast cancer cells. AG3 is presumably secreted and binds to both α-dystroglycan and C4.4a/LYPD3. Mature human AG3 is 145 amino acids (aa) in length (aa 22-166) (SwissProt #:Q8TD06). Over aa 22-166, human AG3 shares 92% amino acid sequence identity with mouse AG3.