

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AG-3 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human AG-2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 774855
Purification	Protein A or G purified from hybridoma culture supernatant
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

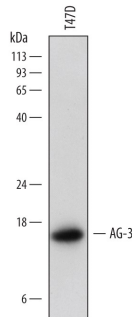
APPLICATIONS

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 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

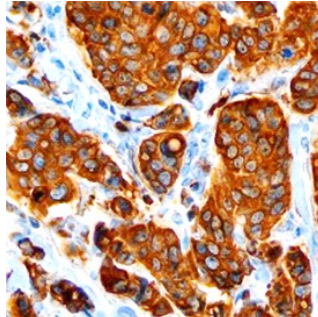
DATA

Western Blot



Detection of Human AG-3 by Western Blot. Western blot shows lysates of T47D human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human AG-3 Monoclonal Antibody (Catalog # MAB6307) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for AG-3 at approximately 16 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunohistochemistry



AG-3 in Human Breast. AG-3 was detected in immersion fixed paraffin-embedded sections of human breast using Mouse Anti-Human AG-3 Monoclonal Antibody (Catalog # MAB6307) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counter-stained with hematoxylin (blue). Specific staining was localized to cytoplasm of glandular cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 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

AG-3 (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. AG-3 is presumably secreted and binds to both α-dystroglycan and C4.4a/LYPD3. Mature human AG-3 is 145 amino acids (aa) in length (aa 22-166). Over aa 22-166, human AG-3 shares 92% amino acid sequence identity with mouse AG-3.