

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human A33 in direct ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 1053809
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human A33 Ile22-Val235 Accession # Q99795
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.

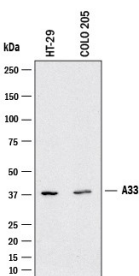
APPLICATIONS

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	2 µg/mL	HT-29 human colon adenocarcinoma cell line and COLO 205 human colorectal adenocarcinoma cell line.
Simple Western	50 µg/mL	Lysates of HT-29 human colon adenocarcinoma cell line and COLO 205 human colorectal adenocarcinoma cell line

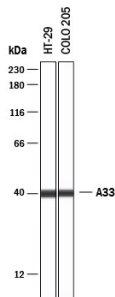
DATA

Western Blot




Detection of Human A33 by Western Blot. Western blot shows lysates of HT-29 human colon adenocarcinoma cell line and COLO 205 human colorectal adenocarcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human A33 Monoclonal Antibody (Catalog # MAB30802) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for A33 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Simple Western



Detection of Human A33 by Simple Western™. Simple Western lane view shows lysates of HT-29 human colon adenocarcinoma cell line, COLO 205 human colorectal adenocarcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for A33 at approximately 40 kDa (as indicated) using 50 µg/mL of Mouse Anti-Human A33 Monoclonal Antibody (Catalog # MAB30802). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

Human A33, also known as GPA33, is a 43 kDa type I transmembrane glycoprotein that belongs to the CTX (cortical thymocyte marker in Xenopus) family of cell adhesion molecules within the immunoglobulin superfamily. Other family members include CXADR, ESAM, BT-IgSF, CD2 and JAM-A-C. The extracellular domain (ECD) of human A33 is 214 amino acids (aa) in length and contains one V-type and one C2-type Ig-like domain. This ECD is 80%, 74% and 71% aa identical to canine, bovine and mouse A33 ECD, respectively. A33 is likely to be involved in cell-cell adhesion between epithelial cells.