Human Mrc2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5770

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Mrc2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse Mrc2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Mrc2 Cys800-Ala1059 Accession # Q9UBG0
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.

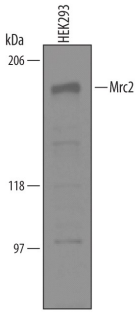
APPLICATIONS

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	5-15 µg/mL	See Below

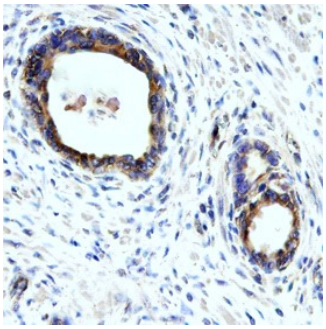
DATA

Western Blot



Detection of Human Mrc2 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Mrc2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5770) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Mrc2 at approximately 180 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



Mrc2 in Human Prostate Cancer Tissue. Mrc2 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Goat Anti-Human Mrc2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5770) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes and cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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.** ● 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

Mrc2 (C-type Mannose Receptor 2; also MMR2, Endocytic Receptor 180 and uPARAP) is a 180-200 kDa member of the macrophage mannose receptor family of proteins. It is widely expressed, being found on fibroblasts, monocytes/macrophages, endothelial cells, keratinocytes and myoepithelial cells. It binds the carbohydrates Man, Fuc and NAcGlc, type V collagen, and pro-uPA. Mature human Mrc2 is a 1449 amino acid (aa) type I transmembrane protein. It contains a 1384 aa extracellular region and a 44 aa cytoplasmic domain. The extracellular region shows one ricin B-type lectin domain (aa 41-167), one fibronectin type II domain (aa 182-230) and eight C-type lectin domains (aa 244-1393). Over aa 800-1059, human Mrc2 shares 87% aa identity with mouse Mrc2.

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