

#### DESCRIPTION

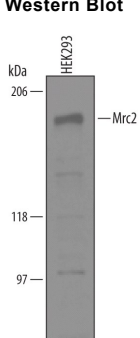
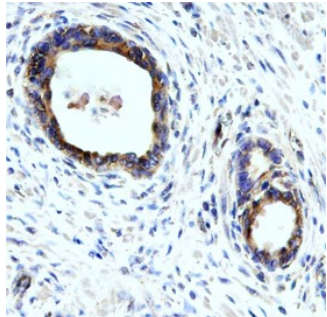
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Mrc2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse Mrc2 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli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

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human Mrc2 by Western Blot.</b> 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.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Mrc2 in Human Prostate Cancer Tissue.</b> 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 &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes and cytoplasm. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.