

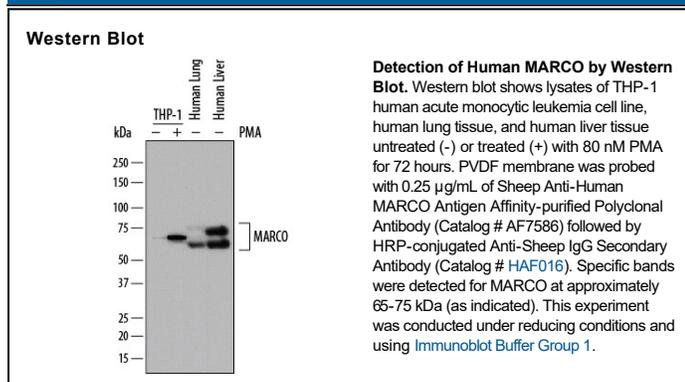
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human MARCO in direct ELISAs and Western blots. In direct ELISA, approximately 10% cross-reactivity with recombinant mouse MARCO is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human MARCO Met79-Val520 Accession # Q9UEW3
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	0.25 µg/mL	See Below

DATA



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

MARCO (Macrophage receptor with collagenous structure; also scavenger receptor class A member 2/SR-AII) is a 65-70 kDa pattern recognition receptor/PRR that belongs to class A of the SR family, SRCR superfamily of molecules. It is expressed by macrophages, monocytes and Kupffer cells, and apparently binds to a number of microbes, including Gram+ bacteria (Staph and Strep) and Gram- bacteria (Neisseria and coliforms), plus crystalline silica. Human MARCO is a 520 amino acid (aa) type II transmembrane glycoprotein. It contains a 43 aa cytoplasmic region and a 456 aa extracellular domain/ECD (aa 65-520). The ECD possesses one collagen-like region (aa 147-419) and an SRCR domain (aa 424-519). Human MARCO is believed to form trimers and/or multimers, and these are likely noncovalent associations. Over aa 79-520, human and mouse MARCO share 70% aa sequence identity.