**BACKGROUND**

Mannose (or mannan)-binding lectin (MBL), also known as serum mannose-binding protein (MBP), initiates the lectin branch of the innate immune response by binding to the surface of potentially pathogenic microorganisms and initiating complement fixation through an N-terminal collagen-like domain. MBL is a key component in immune response in that it can directly trigger neutralization of invading microorganisms by an Ab-independent mechanism. Mutations of human MBL are associated with immunodeficiency resulting from a reduction in the ability of the mutant MBL to initiate complement fixation. In human, three types of MBL-associated serine proteases, MASP-1, MASP-2 and MASP-3, and a truncated form of MASP-2 [small MBL-associated protein; sMAP or MAP19] complex with MBL to activate the lectin pathway of the complement system. MASP-3 is an alternatively spliced product from the MASP-1 gene. The heavy/A chains are identical between MASP-1 and MASP-3 but the light/B chains are entirely different. Activated MASPs subsequently cleave and activate downstream components of the complement pathway.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MASP1 (human) mapping to 3q27.3; Masp1 (mouse) mapping to 16 B1.

**SOURCE**

MASP-1/3 (F-12) is a mouse monoclonal antibody raised against amino acids 171-430 mapping within an internal region of MASP-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MASP-1/3 (F-12) is available conjugated to agarose (sc-166815 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166815 HRP), 200 µg/ml, for WB, (HCP and ELISA; to either phycoerythrin (sc-166815 PE), fluorescein (sc-166815 FITC), Alexa Fluor® 488 (sc-166815 AF488), Alexa Fluor® 546 (sc-166815 AF546), Alexa Fluor® 594 (sc-166815 AF594) or Alexa Fluor® 647 (sc-166815 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166815 AF680) or Alexa Fluor® 790 (sc-166815 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.