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Mouse Anti-Human CD47 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human CD47 | **Clone No.: 1G10**

Catalogue No.: MO-L40045A | **Quantity:**

Description: Mouse monoclonal antibody (mAb) to human CD47.

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human CD47

Immunogen: Human cell expressed recombinant Human CD47 (Gln19-Pro139) with a poly-histidine tag at the C-terminus. Accession #: Q08722

Fusion Myeloma: Sp2/0-Ag14

Specificity: Reactive with recombinant and native human CD47.

Species Reactivity: Human, others not tested.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20 °C

Research Area: Phagocytosis, angiogenesis and cell migration, cancer immunotherapy.

Background: CD47 is a ubiquitously expressed 50 kDa transmembrane protein with an extracellular N-terminal IgV domain. CD47 inhibits phagocytosis through interaction with signal regulatory protein α (SIRPα) on macrophages and other phagocytic cells. Normal cells, especially cells in brain tissue, placenta, prostate, bladder and fallopian tube, expressed abundant CD47. Aged erythrocytes and spontaneous apoptotic cells express less CD47 and are more likely been phagocytized. CD47 expression in many cancer cells are elevated. It is believed that CD47 is a "self" marker that helps cancer cells to escape from immunity.

CD47 is also a receptor for thrombospondin-1 (TSP-1) and integrin. It may play a role in angiogenesis and cell migration.

Application: **Western Blot:** The antibody reacts with non-reduced human CD47 sample extracted from placenta tissue. (For SDS-PAGE, sample buffer without 2-ME was used and sample was treated at 60°C for 5 minutes).

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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