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10-3547: Monoclonal Antibody to human Apoptotic Neutrophils(Discontinued)

Clonality : Monoclonal
Clone Name : BOB93
Application : FACS
Reactivity : Human
Isotype : Mouse IgG1

Description

The monoclonal antibody BOB93 binds to the surface of apoptotic neutrophils. Neutrophils have been implicated in the pathogenenesis of a variety of inflammatory diseases including the adult respiratory distress syndrome, idiopathic pulmonary fibrosis, ulcerative colitis and rheumatoid arthritis. Although the neutrophil is a vital component of the bodyÂ's defense against infectious agents, uncontrolled release of its toxic substances may inflict Â"friendly fireÂ" damage on surrounding tissue and propagate the inflammatory response, leading to scarring and tissue destruction. Apoptosis leads to recognition and safe disposal of dying cells by phagocytosis. Binding of the monoclonal antibody BOB93 to apoptotic neutrophils is dependent on the presence of sialoglycoprotein fetuin, a constituent of bovine serum. Fetuin is the antigen for BOB93, and BOB93 and fetuin form a complex in solution that is necessary and sufficient for binding to apoptotic neutrophils. The antigen recognised by BOB93 may act as a Â"molecular bridgeÂ" between the surface of the apoptotic neutrophil and the phagocyte to modulate apoptotic neutrophil clearance at inflammatory sites. Human macrophage phagocytosis of apoptotic neutrophils was augmented in vitro by addition of the antigen recognised by BOB93, which does not bind to other apoptotic leukocytes.

Product Info

Amount :	1.0 mg / 500 µg
Content :	0.5 mg 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Storage condition :	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year. cause loss of activity. Under recommended storage conditions, product is stable for one year.

Application Note

For flow cytometry analysis:1:10; Western blotting dilutions: 1:10.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.