

**MONOCLONAL ANTIBODY TO HUMAN
APOPTOTIC NEUTROPHILS**
clone BOB93



Catalog nr	HM2154 (lot number and expiry date are indicated on the label)
Description	The monoclonal antibody BOB93 binds to the surface of apoptotic neutrophils. Neutrophils have been implicated in the pathogenesis 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 body's defense against infectious agents, uncontrolled release of its toxic substances may inflict "friendly fire" 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 "molecular bridge" 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.
Species	Mouse IgG ₁
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The monoclonal antibody BOB93 can be used for flow cytometry and Western blotting.
Use	For flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.
References	1. Hart, S et al; Specific binding of an antigen-antibody complex to apoptotic human neutrophils. <i>Am J Pathol</i> 2003, 162: 1011
Also available	HM2154F FITC conjugated monoclonal antibody against human apoptotic neutrophils, clone BOB93 HM2154BT Biotinylated monoclonal antibody against human apoptotic neutrophils, clone BOB93