Monoclonal anti-human MB antibody (clone AT6E10)

Mouse IgG_1, κ

Cat. No. ATGA0217

Immunogen: Recombinant human MB(1-154aa) purified from *E. coli*

NCBI Accession No.: NP_976312

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human MB mAb, clone AT6E10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human MB protein.

Description: MB (Myoglobin) is an an iron- and oxygen-binding protein. It is found in abundance in the muscle tissue of vertebrates in general and in almost all mammals. MB (myglobin) is related to hemoglobin, which consists of four myoglobin-like subunits that form a tetramer and are responsible for carrying oxygen in blood. The only time myoglobin is found in the bloodstream is when it is released following muscle injury. It is an abnormal finding, and can be diagnostically relevant when found in blood.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

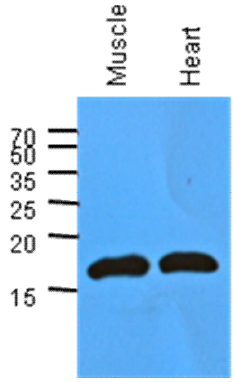
Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000.

Application: ELISA, WB

Western blot analysis

The extracts of mouse muscle and heart (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



General references: George A., *et al.* (2004). *Journal of Experimental Biology* **207** (Pt 20): 3441–6.
Akaboshi E (1985). *Gene* **33** (3): 241–9.
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