

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FABP4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 100% cross-reactivity with recombinant human FABP3 and no cross-reactivity with recombinant rat (rr) FABP1, rrFABP2, or recombinant mouse FABP5 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 258417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse FABP4 Met1-Ala132 Accession # P04117
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse FABP4
Immunocytochemistry	8-25 µg/mL	Immersion fixed ST-2 mouse bone marrow-derived stromal cell line differentiated to adipocytes using Human/Mouse StemXVivo™ Osteogenic/Adipogenic Base Media (Catalog # CCM007) and Human/Mouse StemXVivo Adipogenic Supplement (Catalog # CCM011)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FABP4, also known as adipocyte P2, is expressed in adipocytes and monocyte-derived foam cells. FABP4 binds free fatty acids and is involved in intracellular lipid transport. It has been shown to affect insulin sensitivity, lipid metabolism, and the development of atherosclerosis.