Human/Mouse Osteocrin Antibody

Monoclonal Rat IgG_{2A} Clone # 311417

Catalog Number: MAB2620

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Osteocrin in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG_{2A} Clone # 311417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse Osteocrin Val28-Gly130 Accession # P61364
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

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 Osteocrin
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human or Recombinant Mouse Osteocrin, see our available Western blot detection antibodies

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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

Mouse Osteocrin, also known as Musclin, is a secreted protein that is primarily expressed in bone and muscle. It is synthesized as an 11 kDa proprotein that undergoes proteolytic processing to generate a mature 50 amino acid (5 kDa) C-terminal active peptide. It was found to modulate osteoblast differentation and to regulate glucose metabolism in muscles. Mouse Osteocrin proprotein shares 77% and 78% amino acid sequence identity with the rat and human protein, respectively.

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