

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects only the pro form (11 kDa) of human and mouse Osteocrin in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 311413
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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

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. <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

Mouse Osteocrin, also known as Musclin, is a secreted protein that is primarily expressed in bone and muscle. It is synthesized as a proprotein (11 kDa) that undergoes proteolytic processing to generate a mature 50 amino acid 5 kDa C-terminal active peptide. It was found to modulate osteoblast differentiation 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.