

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
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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