

Mouse IGF-I/IGF-1 Alexa Fluor® 750-conjugated Antibody

Monoclonal Hamster IgG Clone # 126002 Catalog Number: FAB791S

100 µg

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse IGF-I/IGF-1 in direct ELISAs and Western blots. In ELISAs, no cross-reactivity with recombinant human IGF-I/IGF-1, recombinant mouse (rm) IGF-II/IGF-2, rmIGFBP-2, rmIGFBP-5, or rmIGFBP-6 is observed.	
Source	Monoclonal Hamster IgG Clone # 126002	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant mouse IGF-I/IGF-1 Gly49-Ala118 Accession # P05017	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.				
ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
Neutralization	Optimal dilution of this antibody should be experimentally determined.			
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

Insulin-like growth factor I, also known as somatomedin C, is the dominant effector of growth hormone and is structurally homologous to proinsulin. Mouse IGF-I/IGF-1 is synthesized as two precursor isoforms with alternate N- and C-terminal propeptides (1). These isoforms are differentially expressed by various tissues (1). The 7.6 kDa mature IGF-I/IGF-1 is identical between isoforms and is generated by proteolytic removal of the N- and C-terminal regions. Mature mouse IGF-I/IGF-1 shares 94% and 99% amino acid (aa) sequence identity with human and rat IGF-I/IGF-1, respectively (2), and exhibits cross-species activity. It shares 60% as sequence identity with mature mouse IGF-II/IGF-2. Circulating IGF-I/IGF-1 is produced by hepatocytes, while local IGF-I/IGF-1 is produced by many other tissues in which it has paracrine effects (1). IGF-I/IGF-1 induces the proliferation, migration, and differentiation of a wide variety of cell types during development and postnatally (3). IGF-I/IGF-1 regulates glucose and fatty acid metabolism, steroid hormone activity, and cartilage and bone metabolism (4-7). It plays an important role in muscle regeneration and tumor progression (1, 8). IGF-I/IGF-1 lnds IGF-I R, IGF-II R, and the insulin receptor, although its effects are mediated primarily by IGF-I R (9). IGF-I/IGF-1 association with IGF binding proteins increases its plasma half-life and modulates its interactions with receptors (10).

PRODUCT SPECIFIC NOTICES

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