

Product datasheet for **DM3561P**

Igfbp5 Rat Monoclonal Antibody [Clone ID: 12C23]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12C23
Applications:	WB
Recommended Dilution:	Western Blot: 1/500-1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Purified Mouse Recombinant protein of IGF-BP5
Specificity:	This antibody detects IGF-BP5. No cross activity to other IGF-BPs.
Formulation:	PBS without preservatives or stabilizers State: Purified State: Lyophilized (0.2 µm filtered) purified Ig fraction
Reconstitution Method:	Restore with 200 µl sterile PBS and the final concentration is 500 µg/ml.
Purification:	Protein A/G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -70°C. Following reconstitution store the antibody (in aliquots) at < -20°C for at least 6 month. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin-like growth factor binding protein 5
Database Link:	Entrez Gene 16011 Mouse Q07079



[View online »](#)

Background:

IGFBP5 is one of a family of proteins that bind to insulin-like growth factors (IGFs). IGFBP5 is a multifunctional protein which acts not only as a traditional binding protein but also functions as a growth factor independent of IGFs to stimulate bone formation. Currently there are seven named IGF-BPs that form high affinity complexes with both IGFI and IGFI. IGFBP5 is the major IGF-binding protein present in bone tissue and helps potentiate the action of IGFI on smooth muscle cells, fibroblasts or osteoblasts. Data shows that IGFBP5 acts as a growth inhibitor and pro-apoptotic agent in breast cancer cells. IGFBP5 overexpressing mice show an increase in neonatal mortality, reduced female fertility, whole-body growth inhibition and retarded muscle development.

Synonyms:

IGF-binding protein 5, IGFBP-5, IBP5, IBP-5