

Product datasheet for **EA100259**

IGFBP3

Product data:

Product Type:	ELISA Kits
Description:	Mouse IGFBP-3 ELISA Kit
Size:	1 x 96 wells
Assay Type:	Sandwich ELISA kit of Quantitative Detection for Mouse IGFBP-3
Assay Length:	3.5 hours incubations; 1 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	156pg/ml-10,000pg/ml
Sample Type:	Cell culture supernates and serum.
Sample Volume:	100 ul
Specificity:	This kit is used for quantitative detection of mouse IGFBP-3
Sensitivity:	<10pg/ml
Reactivity:	Mouse
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">● 96-well plate precoated with anti- mouse IGFBP-3 antibody 1● Lyophilized recombinant mouse IGFBP-3 standard 10ng/tubex2● Biotinylated anti- mouse IGFBP-3 antibody 130ul(dilution 1:100)● Avidin-Biotin-Peroxidase Complex(ABC) 130ul(dilution 1:100)● Sample diluent buffer 30ml● Antibody diluent buffer 12ml● ABC diluent buffer 12ml● TMB color developing agent 10ml● TMB stop solution 10ml



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Background:

Insulin-like growth factor(IGF)-binding protein-3(IGFBP-3) is a major determinant of circulating levels of the IGFs and is clinically useful for the evaluation of GH deficiency and for predicting the response to GH treatment. The circulating level of IGFBP-3 is inversely related to the risk of several common cancers, and that antiproliferative agents such as antiestrogens and retinoids act in part by up-regulating IGFBP-3 gene(IGFBP3) expression. Insulin-like growth factor-binding protein(IGFBP)-3, well characterized as the carrier of insulin-like growth factor(IGF), has been reported to have intrinsic bioactivity that is independent of IGF binding. IGFBP-3 has an IGF-independent, antiproliferative effect in undifferentiated and early differentiated but not in terminally differentiated chondrocytes. IGFBP-3 possesses both growth-inhibitory and potentiating effects on cells that are independent of IGF action and are mediated through specific. IGFBP-3 binding proteins/receptors locate at the cell membrane, cytosol, or nuclear compartments and in the extracellular matrix. IGFBP3 is also located on chromosome 7. The standard product used in this kit is recombinant mouse IGFBP-3, consisting of 270 amino acids with the molecular mass of 29.4kDa. As a result of glycosylation, the molecular mass is 40-50kDa.

Gene Symbol:

IGFBP3

Gene ID:

3486