



Anti-IGFBP2 monoclonal antibody, clone 03437 (DCABY-4139)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins. Some IGFBPs may also have intrinsic bioactivity that is independent of their ability to bind IGF proteins. Post-translational modifications of IGFBP, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF. ALS (Acid Labile Subunit) is a liver-derived protein that exists in a ternary complex with Insulin-like Growth Factor (IGF)-binding Protein-3 (IGFBP-3) or IGFBP-5, and either IGF-I or IGF-II. ALS increases the half-life of IGF/IGFBP complexes in circulation. |
| Specificity | Detects human IGFBP-2 in direct ELISAs and Western blots. In Western blots, shows less than 1% cross-reactivity with rhIGFBP-1, rhIGFBP-3, rhIGFBP-4, rhIGFBP-5, and rhIGFBP-6. |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human IGFBP-2. Glu40-Gln328 Accession Number CAA34373 |
| Isotype | IgG1 |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | 03437 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Conjugate | Unconjugated |

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| Applications | Western Blot, ELISA Capture (Matched Pair) |
| Format | Liquid |
| Size | 500 µg |
| Buffer | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. |
| Preservative | None |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted. |

GENE INFORMATION

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| Gene Name | IGFBP2 insulin-like growth factor binding protein 2, 36kDa [Homo sapiens (human)] |
| Official Symbol | IGFBP2 |
| Synonyms | IGFBP2; insulin-like growth factor binding protein 2, 36kDa; IBP2; IGF-BP53; insulin-like growth factor-binding protein 2; IBP-2; IGFBP-2; IGF-binding protein 2; |
| Entrez Gene ID | 3485 |
| Protein Refseq | NP_000588 |
| UniProt ID | P18065 |
| Chromosome Location | 2q33-q34 |
| Pathway | Metabolism of proteins; Myometrial Relaxation and Contraction Pathways; Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs); |
| Function | insulin-like growth factor I binding; insulin-like growth factor II binding; protein binding; |