

# Recombinant Human Cellular Retinoic Acid Binding Protein 2

**Cat. No.** CRABP2-368H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human CRABP2 was expressed in E.coli and purified by using conventional chromatography techniques, 15.6 kDa (138 aa).                                                                                                                                                                                                                                                                                                |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>              | The cellular retinoic acid-binding protein II (CRABP-II) is involved in the conversion of vitamin A into its intracellular active form retinoic acid, which regulate the genes responsible for lipid metabolism and adipocyte differentiation. CRABP2 gene is located on chromosome 1q21-23 and this region has been linked with related disorders such as familial combined hyperlipidemia (FCHL) and type 2 diabetes mellitus. |
| <b>Sequences of amino acids</b> | MPNFSGNWKI IRSENFEEELL KVLGVNVMLR KIAVAAASKP AVEIKQEGDT<br>FYIKTSTTVR TTEINFKVGE EFEEQTV DGR PCKSLVKWES ENKMOVCEQKL<br>LKGE GPKTSW TRELTNDGEL ILTMTADDVV CTRVYVRE                                                                                                                                                                                                                                                                |
| <b>Formulation</b>              | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                   | > 95% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>                  | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and                                                                                                                                                                                                                                                                                                                                                 |

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store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

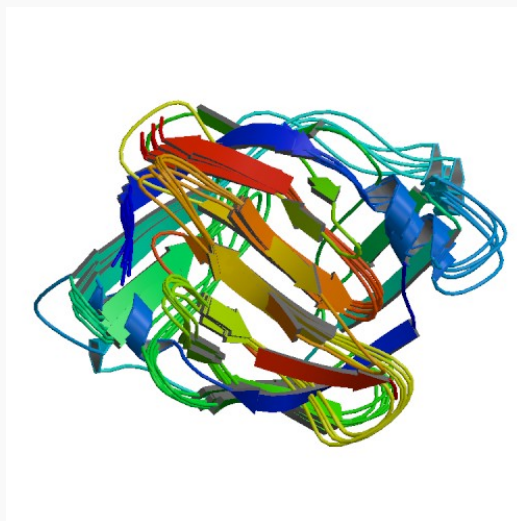
|                            |                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CRABP2 cellular retinoic acid binding protein 2 [ Homo sapiens ]                                                                                                                              |
| <b>Synonyms</b>            | CRABP-II; OTTHUMP00000038730; OTTHUMP00000038732; RBP6; Cellular retinoic acid-binding protein II; cellular retinoic acid binding protein 2; cellular retinoic acid-binding protein 2; CRABP2 |
| <b>Gene ID</b>             | 1382                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_001878                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_001869                                                                                                                                                                                     |
| <b>MIM</b>                 | 180231                                                                                                                                                                                        |
| <b>UniProt ID</b>          | P29373                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 1q21.3                                                                                                                                                                                        |
| <b>Pathway</b>             |                                                                                                                                                                                               |
| <b>Function</b>            | lipid binding; retinal binding; retinol binding; transporter activity                                                                                                                         |

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