

# Recombinant Human CRABP1

**Cat. No.** CRABP1-26984TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant full length CRABP1 protein MW 15.5kDa.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>              | This gene encodes a specific binding protein for a vitamin A family member and is thought to play an important role in retinoic acid-mediated differentiation and proliferation processes. It is structurally similar to the cellular retinol-binding proteins, but binds only retinoic acid at specific sites within the nucleus, which may contribute to vitamin A-directed differentiation in epithelial tissue. |
| <b>Form</b>                     | Liquid                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>                   | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 10% Glycerol, 20mM Tris HCl, pH 8                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>                  | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                                                                                                     |
| <b>Sequences of amino acids</b> | MPNFAGTWKM RSENFDELL KALGVNAMLK KVAVAAASKP HVEIRQDGDQ<br>FYIKTSTTVR TTEINFKVGE GFEEETVDGR KCRSLATWEN ENKIHCTQTL<br>LEGDGPKTYW TRELANDELI LTFGADDVVC TRIYVRE                                                                                                                                                                                                                                                         |

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|                              |                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequence Similarities</b> | Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.                                                                                        |
| <b>Full Length</b>           | Full L.                                                                                                                                                              |
| <b>GENE INFORMATION</b>      |                                                                                                                                                                      |
| <b>Gene Name</b>             | CRABP1 cellular retinoic acid binding protein 1 [ Homo sapiens ]                                                                                                     |
| <b>Official Symbol</b>       | CRABP1                                                                                                                                                               |
| <b>Synonyms</b>              | CRABP1; cellular retinoic acid binding protein 1; cellular retinoic acid binding protein 1 , RBP5; cellular retinoic acid-binding protein 1; CRABP; CRABP I; CRABPI; |
| <b>Gene ID</b>               | 1381                                                                                                                                                                 |
| <b>mRNA Refseq</b>           | NM_004378                                                                                                                                                            |
| <b>Protein Refseq</b>        | NP_004369                                                                                                                                                            |
| <b>MIM</b>                   | 180230                                                                                                                                                               |
| <b>Uniprot ID</b>            | P29762                                                                                                                                                               |
| <b>Chromosome Location</b>   | 15q24                                                                                                                                                                |
| <b>Pathway</b>               | Vitamin A and carotenoid metabolism, organism-specific biosystem;                                                                                                    |
| <b>Function</b>              | lipid binding; retinal binding; retinoid binding; retinol binding; transporter activity;                                                                             |

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