

# Recombinant Human APOBEC1

**Cat. No.** APOBEC1-26872TH **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment of Human APOBEC1 with an N terminal proprietary tag;<br>Predicted MWt 36.63 kDa.                                                                                                                                                                                                                                         |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>      | 100 amino acids                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>        | This gene encodes a member of the cytidine deaminase enzyme family. The encoded protein forms a multiple-protein editing holoenzyme with APOBEC1 complementation factor (ACF) and APOBEC1 stimulating protein (ASP). This holoenzyme is involved in the editing of C-to-U nucleotide bases in apolipoprotein B and neurofibromatosis-1 mRNAs. |
| <b>Molecular Weight</b>   | 36.630kDa inclusive of tags                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue specificity</b> | Expressed exclusively in the small intestine.                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                      |
| <b>Storage buffer</b>     | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                         |

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|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                 |
| <b>Sequences of amino acids</b> | SGVTIQIMRASEYYHCWRNFVNYPGDEAHWPQYPPLWMMMLYALELHCIILSLPPCL<br>KISRRWQNHLLTFFRLHLQNCHYQTIPPHILLATGLIHPSVAWR |
| <b>Sequence Similarities</b>    | Belongs to the cytidine and deoxycytidylate deaminase family.                                             |

## GENE INFORMATION

|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">APOBEC1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 [ Homo sapiens ]</a>                             |
| <b>Official Symbol</b>     | <a href="#">APOBEC1</a>                                                                                                            |
| <b>Synonyms</b>            | APOBEC1; apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1; C->U-editing enzyme APOBEC-1; APOBEC 1; BEDP; CDAR1; HEPR; |
| <b>Gene ID</b>             | <a href="#">339</a>                                                                                                                |
| <b>mRNA Refseq</b>         | <a href="#">NM_001644</a>                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_001635</a>                                                                                                          |
| <b>MIM</b>                 | <a href="#">600130</a>                                                                                                             |
| <b>Uniprot ID</b>          | <a href="#">P41238</a>                                                                                                             |
| <b>Chromosome Location</b> | 12p13.1                                                                                                                            |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Formation of the Editosome, organism-specific biosystem; mRNA Editing, organism-specific biosystem; mRNA Editing: C to U Conversion, organism-specific biosystem; mRNA Processing, organism-specific biosystem; |
| <b>Function</b> | AU-rich element binding; RNA binding; cytidine deaminase activity; hydrolase activity; metal ion binding;                                                                                                       |

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