

## Recombinant Human ADAM2

**Cat. No.** ADAM2-26137TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment of Human ADAM2 with N-terminal proprietary tag. Predicted MW 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 ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. This member is a subunit of an integral sperm membrane glycoprotein called fertilin, which plays an important role in sperm-egg interactions. |
| <b>Molecular Weight</b>   | 36.630kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tissue specificity</b> | Expressed specifically in spermatogenic cells in the seminiferous cells. Not detected in fetal tissues.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                                 |                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                    |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                |
| <b>Sequences of amino acids</b> | RLDPFFKQQAVCGNAKLEAGEECDGTEQDCALIGETCCDIATCRFKAGSNCAEGP<br>CCENCLFMSKERMCRPSFEECDLPEYCNCGSSASCPENHYVQTGH |
| <b>Sequence Similarities</b>    | Contains 1 disintegrin domain.Contains 1 EGF-like domain.Contains 1 peptidase M12B domain.               |

## GENE INFORMATION

|                        |                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">ADAM2 ADAM metallopeptidase domain 2 [ Homo sapiens ]</a>                                                                                                     |
| <b>Official Symbol</b> | <a href="#">ADAM2</a>                                                                                                                                                     |
| <b>Synonyms</b>        | ADAM2; ADAM metallopeptidase domain 2; fertilin beta , FTNB; disintegrin and metalloproteinase domain-containing protein 2; cancer/testis antigen 15; CT15; PH 30b; PH30; |
| <b>Gene ID</b>         | <a href="#">2515</a>                                                                                                                                                      |
| <b>mRNA Refseq</b>     | <a href="#">NM_001464</a>                                                                                                                                                 |
| <b>Protein Refseq</b>  | <a href="#">NP_001455</a>                                                                                                                                                 |
| <b>MIM</b>             | <a href="#">601533</a>                                                                                                                                                    |
| <b>Uniprot ID</b>      | <a href="#">Q99965</a>                                                                                                                                                    |

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|----------------------------|-----------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 8p11.2                                                                                        |
| <b>Function</b>            | integrin binding; metalloendopeptidase activity; metallopeptidase activity; zinc ion binding; |

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