

## Human Serine Protease 33 (PRSS33) ELISA Kit | PRSS33 elisa kit

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CATALOG #  
**AAA331287**

REACTIVITY  
**Human**

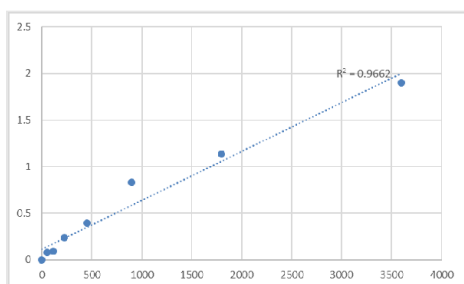
### PRODUCT SYNONYMS

Serine Protease 33 (PRSS33); Human Serine Protease 33 (PRSS33) ELISA Kit; PRSS33; EOS; serine protease EOS; PRSS33 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Serine protease 33 (PRSS33) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRSS33. No significant cross-reactivity or interference between Human PRSS33 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Length         | 280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Serine protease 33 (PRSS33) Standard Curve.

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Related Product Information for PRSS33 elisa kit | <p>Description: This Human Serine protease 33 (PRSS33) ELISA Kit employs a two-site sandwich ELISA to quantitate PRSS33 in samples. An antibody specific for PRSS33 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRSS33 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRSS33 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRSS33 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: EOS contains 284 amino acids with an active form containing 248 amino acids starting from an Ile-Val-Gly-Gly motif. The active form comprises a catalytic triad of conserved amino acids: His77, Asp126 and Ser231. It shares 44% identity with beta-tryptase and belongs to the S1 trypsin-like serine-protease family. Interestingly, this gene also maps to human chromosome 16p13.3. Tissue distribution by Immunohistochemistry analysis demonstrated that EOS is highly expressed in spleen and moderately expressed in intestine, colon, lung and brain. Since macrophages have important roles in various pathological conditions, such as wound healing, atherosclerosis and numerous inflammatory diseases, the localization of this novel serine protease to active macrophages may help to further the elucidation of the roles of this gene product in modulating these disorders.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|--------------------|
| NCBI GI #                        | 117956391          |
| NCBI GeneID                      | 260429             |
| NCBI Accession #                 | NP_690851.2        |
| NCBI GenBank Nucleotide #        | NP_690851.2        |
| UniProt Accession #              | Q8NF86             |
| NCBI Official Full Name          | serine protease 33 |
| NCBI Official Synonym Full Names | serine protease 33 |
| NCBI Official Symbol             | PRSS33             |
| NCBI Official Synonym Symbols    | EOS                |
| NCBI Protein Information         | serine protease 33 |
| UniProt Protein Name             | Serine protease 33 |
| UniProt Gene Name                | PRSS33             |
| UniProt Entry Name               | PRS33_HUMAN        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.