

Datasheet for ABIN6719731 **TGFBR3 ELISA Kit**

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Overview

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| Quantity: | 1 kit |
| Target: | TGFBR3 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 156 pg/mL - 10000 pg/mL |
| Minimum Detection Limit: | 156 pg/mL |
| Application: | ELISA |

Product Details

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| Purpose: | Human TGFBR3 Sandwich ELISA Kit for Quantitative Detection |
| Brand: | AccuSignal™ |
| Sample Type: | Cell Culture Supernatant, Plasma (EDTA - heparin), Serum |
| Analytical Method: | Quantitative |
| Detection Method: | Colorimetric |
| Specificity: | Production: Natural and recombinant human TGFBR3. There is no detectable cross-reactivity with other relevant proteins. |
| Sensitivity: | < 10 pg/mL |
| Components: | <ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody |

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

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| Target: | TGFR3 |
| Alternative Name: | TGFR3 (TGFR3 Products) |
| Background: | <p>Synonyms: Beta glycan, Betaglycan, Betaglycan proteoglycan, BGCAN, TGBR3_HUMAN, TGF beta receptor type 3, TGF beta receptor type III, TGF-beta receptor type 3, TGF-beta receptor type III, TGFB R3, TGFR 3, TGFR3, TGFR 3, TGFR-3, TGFR3, Transforming growth factor beta receptor III, Transforming growth factor beta receptor III betaglycan 300 kDa, Transforming growth factor beta receptor type 3</p> <p>Background: Betaglycan also known as Transforming growth factor beta receptor III (TGFR3), is a cell-surface chondroitin sulfate / heparan sulfate proteoglycan >300 kDa in molecular weight. Betaglycan binds to various members of the TGF-beta superfamily of ligands via its core protein, and bFGF via its heparan sulfate chains. It is not involved directly in TGF-beta signal transduction but by binding to various member of the TGF-beta superfamily at the cell surface it acts as a reservoir of ligand for TGF-beta receptors. By cDNA array and immunohistochemistry analyses, it is found that TGFR3 expression is lost in most breast cancers examined in association with loss of heterozygosity of the TGFR3 locus. TGFR3 expression decreased during breast cancer progression, and low levels predicted decreased recurrence-free survival in patients. Loss of TGFR3 through allelic imbalance is a frequent genetic event during breast cancer development that increases metastatic potential. Also, TGFR3 can localize transformation in the heart and play an essential, nonredundant role in TGF-beta signaling.</p> |
| Gene ID: | 7049 |
| NCBI Accession: | NP_001182612 |
| UniProt: | Q03167 |

Application Details

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| Application Notes: | Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the |
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Application Details

10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human TGFBR3 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin , EDTA) to each empty well. It is recommended that each human TGFBR3 standard solution and each sample be measured in duplicate.

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| Comment: | Standard: Expression system for standard: NSO, Immunogen sequence: G21-D781 |
| Sample Volume: | 100 µL |
| Plate: | Pre-coated |
| Restrictions: | For Research Use only |

Handling

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| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing. |
| Expiry Date: | 12 months |