

Datasheet for ABIN2733495

**TGFA Protein (Transcript Variant 1)**[Go to Product page](#)**1** Image

## Overview

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| Quantity:                | 20 µg                                                                                          |
| Target:                  | TGFA                                                                                           |
| Protein Characteristics: | Transcript Variant 1                                                                           |
| Origin:                  | Human                                                                                          |
| Source:                  | Escherichia coli (E. coli)                                                                     |
| Protein Type:            | Recombinant                                                                                    |
| Biological Activity:     | Active                                                                                         |
| Application:             | Functional Studies (Func), Antibody Production (AbP), Protein Interaction (PI), Standard (STD) |

## Product Details

|                              |                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specificity:                 | Optimal preservation of protein structure, post-translational modifications and functions.                                                                                                                                  |
| Characteristics:             | <ul style="list-style-type: none"><li>• Recombinant human TGF-alpha (TGFA) (transcript variant 1) protein expressed in E. coli.</li><li>• Produced with end-sequenced ORF clone</li><li>• Tested for bioactivity.</li></ul> |
| Purity:                      | > 95 % as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                |
| Endotoxin Level:             | Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).                                                                                                                                                                         |
| Biological Activity Comment: | ED50 as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is less than or equal to 0.2 ng/ml, corresponding to a specific activity of > 5 x 10 <sup>6</sup> units/mg.                    |

### Target Details

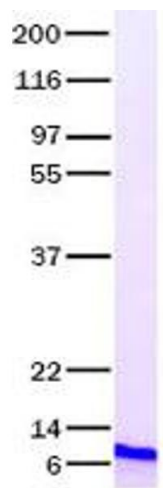
|                   |                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | TGFA                                                                                                                                                                                                                             |
| Alternative Name: | Tgf-alpha (Tgfa) ( <a href="#">TGFA Products</a> )                                                                                                                                                                               |
| Background:       | TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor/EGFR and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar.<br>[UniProtKB/Swiss-Prot Function] |
| Molecular Weight: | 5.5 kDa                                                                                                                                                                                                                          |
| NCBI Accession:   | <a href="#">NP_003227</a>                                                                                                                                                                                                        |
| Pathways:         | <a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">EGFR Signaling Pathway</a>                                                                                                                     |

### Application Details

|                    |                                                                                                                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Recombinant human proteins can be used for:<br>Native antigens for optimized antibody production<br>Positive controls in ELISA and other antibody assays<br>Protein-protein interaction<br>In vitro biochemical assays and cell-based functional assays |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                   |

### Handling

|                  |                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Buffer:          | Lyophilized from a 0.2 µM filtered solution of 20 mM phosphate buffer,100 mM NaCl, pH 7.2                                                         |
| Handling Advice: | Resuspend the protein in the desired concentration in proper buffer                                                                               |
| Storage:         | -80 °C                                                                                                                                            |
| Storage Comment: | Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended. |



Western Blotting

**Image 1.** Validation with Western Blot