

Datasheet for ABIN6940717  
**anti-TGFA antibody (AA 34-43)**



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1 Image

## Overview

|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                                             |
| Target:              | TGFA                                                                                               |
| Binding Specificity: | AA 34-43                                                                                           |
| Reactivity:          | Human, Rabbit, Zebrafish (Danio rerio)                                                             |
| Host:                | Mouse                                                                                              |
| Clonality:           | Monoclonal                                                                                         |
| Conjugate:           | This TGFA antibody is un-conjugated                                                                |
| Application:         | Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM) |

## Product Details

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:   | A 10-amino acid synthetic peptide (aa34-43; PPVAAAVVSH) from human TGFα.                                                                                                                                                                                                                                                                                                                                                                                              |
| Clone:       | 1E8-G6                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isotype:     | IgM kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity: | This antibody reacts with the TGF alpha and shows no cross-reaction with EGF and the neuropeptide synenkephalin. The staining with this MAb is completely blocked by the peptide used for raising this antibody. TGF (aa50) is a growth factor with 33 % homology to EGF, binds to EGFR, activates tyrosine phosphorylation of the receptor, and stimulates cell proliferation. It plays a role in tumor initiation by inducing the reversible transformed phenotype. |

## Target Details

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| Target:           | TGFA                                                                                                         |
| Alternative Name: | TGFA ( <a href="#">TGFA Products</a> )                                                                       |
| Molecular Weight: | ~6kDa                                                                                                        |
| Gene ID:          | 7039                                                                                                         |
| UniProt:          | <a href="#">P01135</a>                                                                                       |
| Pathways:         | <a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">EGFR Signaling Pathway</a> |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Application Notes: | Positive Control: Jurkat or Ramos cells. Testicular Carcinoma.<br>Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (2-4 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 200 µg/mL                                                                                                              |
| Buffer:            | 10 mM PBS with 0.05 % BSA & 0.05 % azide.                                                                              |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C                                                                                                                   |
| Storage Comment:   | Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.            |
| Expiry Date:       | 24 months                                                                                                              |



#### Immunohistochemistry

**Image 1.** Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with TGF alpha Monoclonal Antibody (1E8-G6)