

## Product datasheet

### anti-TGF-alpha mouse monoclonal, 1E8-G6, purified

#### Short overview

<b>Cat. No.</b>	691508
<b>Quantity</b>	1 ml (100 µg/ml)
<b>Concentration</b>	100 µg/ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgM kappa
<b>Clone</b>	1E8-G6
<b>Immunogen</b>	Synthetic TGF-alpha 34-43 decapeptide linked carrier
<b>Formulation</b>	PBS with 0.02% sodium azide
<b>UniprotID</b>	P01135 (Human), P98138 (Rabbit), Q7T011 (Zebrafish, Brachydanio rerio)
<b>Synonym</b>	Protransforming growth factor alpha [Cleaved into: Transforming growth factor alpha, TGF-alpha, EGF-like TGF, ETGF, TGF type 1], TGFA
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	2-8°C
<b>Intended use</b>	Research use only
<b>Application</b>	ELISA, FACS, IHC, WB
<b>Reactivity</b>	Human, Rabbit, Zebrafish

#### Applications

<b>ELISA</b>	Assay dependent
<b>Flow Cytometry (FACS)</b>	0.5-1.0 µg/million cells in 0.1 ml
<b>Immunohistochemistry (IHC) - frozen</b>	1:50-1:100 (1-2 µg/ml)
<b>Immunohistochemistry (IHC) - paraffin</b>	1:50-1:100 (1-2 µg/ml; microwave treatment in 10 mM citrate buffer pH 6.0 recommended)
<b>Western Blot (WB)</b>	1:50-1:100 (1-2 µg/ml)

#### Background

1E8-G6 reacts with TGF-alpha and shows no cross-reaction with EGF and the neuropeptide synenkephalin. 1E8-G6 is completely blocked by the peptide used for immunization. TGF-alpha (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. In sections both cytoplasm and cell membranes are stained.

Positive control: Jurkat or Ramos cells, testicular carcinoma, breast cancer.

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## Product images



Human testicular cancer