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TGF-alpha (Transforming Growth Factor alpha) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM357]
Catalog # AH10761

Product Information

Application	IF, FC
Primary Accession	P01135
Other Accession	7039, 170009
Reactivity	Human, Mouse, Rat, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	SPM357
Calculated MW	17006

Additional Information

Gene ID	7039
Other Names	Protransforming growth factor alpha, Transforming growth factor alpha, TGF-alpha, EGF-like TGF, ETGF, TGF type 1, TGFA
Application Note	IF~~1:50~200 FC~~1:10~50
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	TGF-alpha (Transforming Growth Factor alpha) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TGFA
Function	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.
Cellular Location	[Transforming growth factor alpha]: Secreted, extracellular space Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and

Tissue Location	tumor-derived cell lines

Background

This antibody reacts with the C-terminus of TGF alpha and shows no cross-reaction with EGF and the neuropeptide synenkephalin. The staining with Ab-1 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.

References

Kobrin MS et. al. J Bio Chem, 1986, 261:14414-9. | Kudlow JE et. al. Endocrinology, 1987, 121(4):1577-9. | Kobrin MS et. al. Endocrinology, 1987, 121(4):1412-6. | Kudlow JE et. al. J Bio Chem, 1989, 264(7):3880-3 |