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## **Transforming Growth Factor $\alpha$ (TGF $\alpha$ ) Ab-1 (Clone MF9)**

### **Mouse Monoclonal Antibody**

**Cat. #DLN-10430, DLN-10431, or DLN-10429 (0.1ml, 0.5ml, or 1.0ml at 200 $\mu$ g/ml)** (Purified Ab with BSA and Azide)

**Cat. #DLN-10432 or DLN-10433 (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)

**Cat. #DLN-10427, DLN-10428, or DLN-10426 (0.1ml, 0.5ml, or 1.0ml at 200 $\mu$ g/ml)** (Biotin-Labeled Ab with BSA and Azide)

**Cat. #DLN-10434 (7.0ml)** (Ready-to-Use for Immunohistochemical Staining)

**Description:** TGF $\alpha$  (aa 50) 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.

**Comments:** Ab-1 shows no cross-reaction with EGF and the neuropeptide synenkephalin.<sup>4</sup> The staining with Ab-1 is completely blocked by the peptide used for raising this antibody.<sup>3</sup>

**Mol. Wt. of Antigen:** 6kDa

**Epitope:** C-terminal

**Species Reactivity:** Human, Cow, Rat, and Mouse. Others-not known.

**Clone Designation:** MF9

**Ig Isotype / Light Chain:** IgG<sub>1</sub> /  $\kappa$

**Immunogen:** A 17-amino acid synthetic peptide from the carboxyl-terminus of RAT TGF $\alpha$ .<sup>1</sup>

### **Applications and Suggested Dilutions:**

- Western Blotting (Ab 1-2 $\mu$ g/ml for 2hrs at RT)

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Recombinant TGF $\alpha$  protein. A2058 cells.

**Cellular Localization:** Cytoplasmic.

### **Supplied As:**

200 $\mu$ g/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

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### ***Storage and Stability:***

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

### ***Key References:***

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

### ***Limitations and Warranty:***

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

### ***Material Safety Data:***

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

***For Research Use Only***

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