

**Anti Tumor necrosis factor alpha (TNF-a)  
Mouse Monoclonal Antibody**Subclass: IgG<sub>1</sub>/κ

PRODUCT NO.

**HYB 141-09**

PRESENTATION

Preparation: Protein-A purified  
Content: 1 ml, 1 mg/mL  
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl  
Storage: In the dark at 4-8°C

ANTIGEN

Tumor necrosis factor alpha (TNF-a) is a cytokine produced by activated monocytes and macrophages. TNF-a stimulates inflammation and can act directly as an inducer of apoptosis. It mediates many of the systemic acute phase responses but can also cause septic shock in patients with serious infections. Human TNF-a is a 17.4 kDa protein containing 157 amino acid residues (1).

IMMUNOGEN

Human TNF-a

SPECIFICITY

HYB 141-09 is specific for human TNF-a

EPI TOPE SPECIFICITY

Epitope specificity differs from but overlap that of HYB 141-08

REACTIVITY

In ELISA HYB 141-09 reacts strongly with human TNF-a with the antigen coated directly onto the microtitre well.

CULTURE MEDIUM

Dulbecco's modified Eagle's medium with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)<sub>3</sub>

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:2000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

1. Scott T & Eagleson M (1988) Concise Encyclopedia Biochemistry: Walter de Gruyter, New York.

**CONDITIONS**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.