



## Rabbit Polyclonal Antibody to Human tumor necrosis Factor- alpha subunit (TNF- $\alpha$ )

### *Technical Data Sheet*

#### Reagent Category

Rabbit Polyclonal primary antibody to TNF- $\alpha$

#### Antibody Formats Supplied

0.2 ml of anti TNF- $\alpha$ , Concentrate

PRODUCT# IMI31252E (Concentrate)

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**SOURCE:** Rabbit

**IMMUNOGEN:** Recombinant human TNF-alpha

#### **REACTIVITY**

Anti human TNF- $\alpha$  also known as cachectin is a cytokine composed of three identical polypeptide subunits; TNF- $\alpha$  is a major mediator of inflammatory responses and high-level secretion results in tissue damage. This antibody is suitable for staining routinely fixed paraffin embedded and frozen sections. It is compatible with formalin fixed tissues and with other commonly used histological fixatives.

**POSITIVE CONTROL TISSUE:** Tonsil, lymph node, smooth muscle

#### **Antibody FORMAT, DILUTION and INCUBATION guidelines:**

**0.2 ml Concentrate;** the working titer must be determined by the end user for the tissue and the staining reagents employed. The guideline for starting dilution: 1:40-1:80 for 30 minute to 1-hour incubation time. **This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

*For Background-Free, gentle retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.*

***The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT detection systems in conjunction with the used of Innovex Signal Enhancing Wash Buffer.***

#### **APPLICATIONS**

This antibody is intended for use in immunolocalization of TNF- $\alpha$  by a variety of immunoassays such as Immunocytochemistry, ELISA, Immunoblotting and dot blotting. In immunocytochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections of human or animal tissues for the purpose of qualitative localization of TNF- $\alpha$  antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

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## **SPECIES REACTIVITY**

This antibody reactivity with human and mouse cells has been substantiated. Human and mouse TNF- $\alpha$  display 79% homology at the amino acid level. Other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

## **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

***FOR PROFESSIONAL RESEARCH USE ONLY***