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# Product Datasheet

## TNFa - Tumor necrosis factor alpha
### GRP13217

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|---|---|
| **Species/Host** | Chicken |
| **Reactivity** | Human |
| **Predicted Reactivity** | Cat, Dog, Horse, Pig, Primates |
| **Immunogen** | purified full length recombinant protein P01375 |
| **Form/Appearance** | Liquid in 0.9% NaCl, 0.1% sodium azide |
| **Storage** | Store at 4°C; make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes. |
| **Note** | For research use only. |
| **Clonality** | Polyclonal |
| **Purity** | Total IgY |
| **MW** | 26 kDa |
| **Uniprot ID** | P01375 |
| **Dilution Range** | 1 : 5000 (WB) |
| **Application Notes** | Additional Information: This antibody, in dilution 1:5 000, will detect 10 ng of SDS denatured and reduced human TNFa on western blots.ELISA performance: Purified antigen is precoated on the microtitre plate. IMS01-102-339 is used as primary antibody at various dilutions. ALP-conjugated anti-chicken IgG is used as a secondary antibody at a dilution of 1:1000. The IgY fraction is isolated by a two-step PEG precipitation procedure followed by ammonium sulphate precipitation. Background: Tumor Necrosis Factor alpha (TNF alpha) is a protein secreted by lipopolysaccharide stimulated macrophages, and causes tumor necrosis when injected into tumour bearing mice. TNF alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF alpha exists as a multimer of two, three, or five noncovalently linked units, but shows a single 17 kDa band following SDS PAGE under non reducing conditions. TNF alpha is closely related to the 25 kDa protein Tumour Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis or cytostasis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. |