

Product Datasheet

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Anti-TNF Receptor 1

Polyclonal

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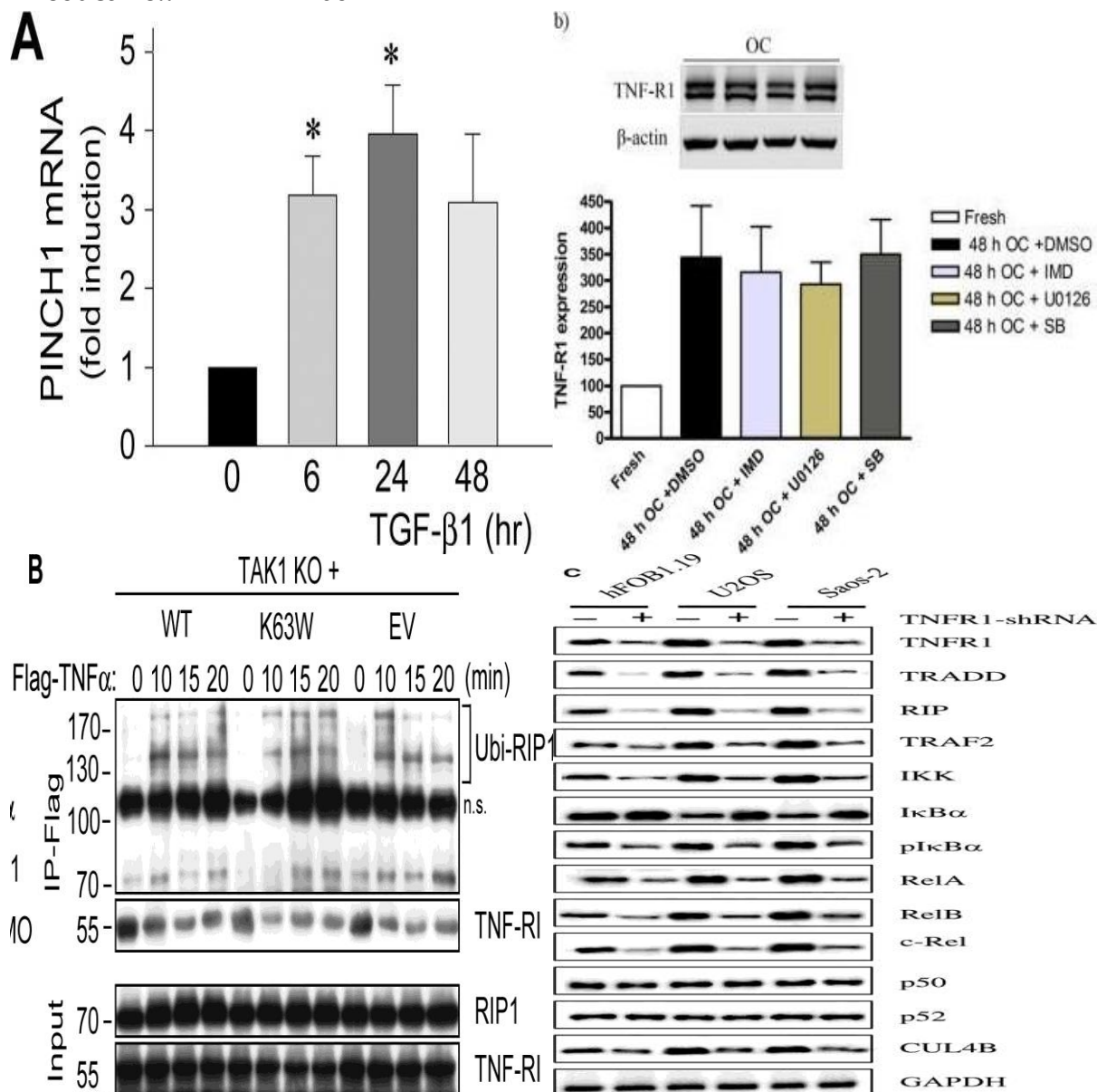
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Product Information

Product No.: 11062



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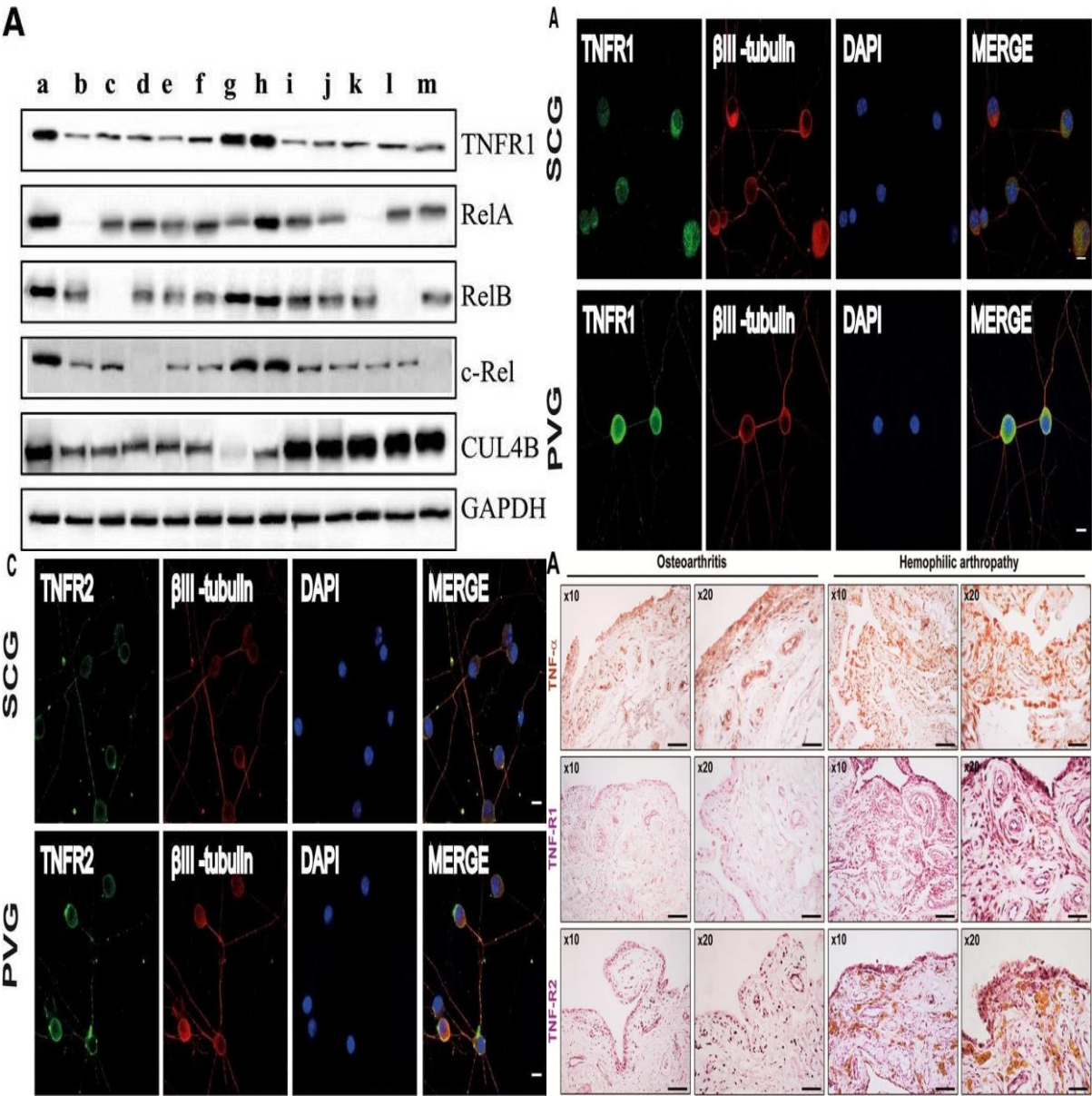
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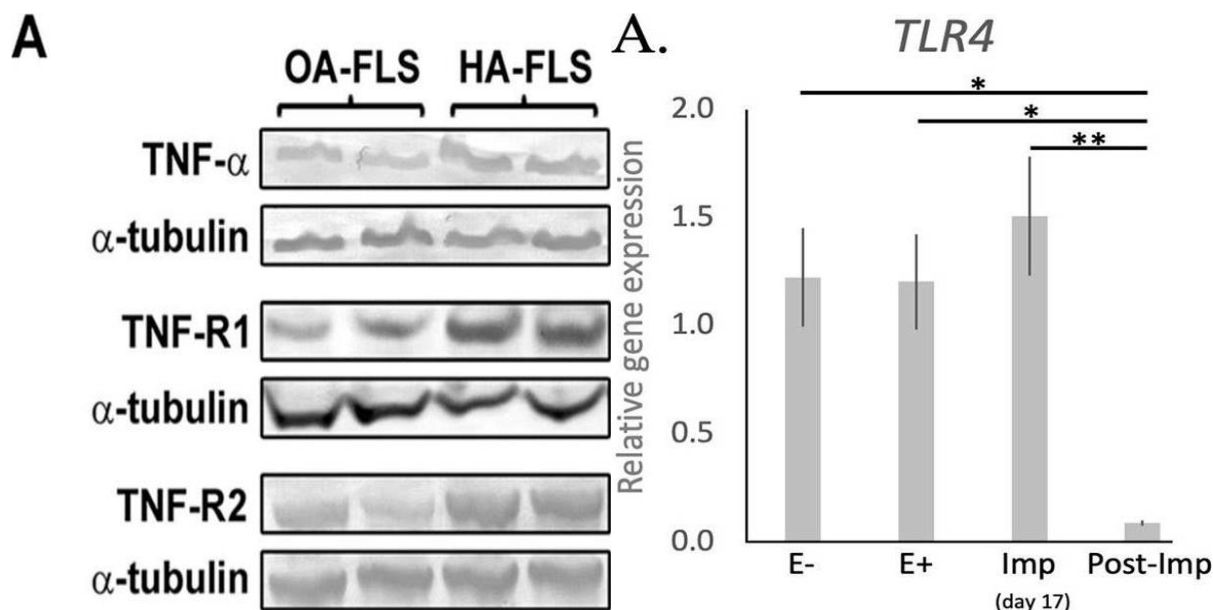
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Product Description

Specificity:

This antibody detects a 55kDa protein on heat shocked HeLa cell lysate SDS-PAGE immunoblots, corresponding to the molecular weight of TNF-R1. This antibody reacts with human, mouse, rat, hamster, bovine, rabbit, monkey, sheep, canine, pig, Drosophila, Xenopus, and yeast TNF-R1

Background:

Tumor necrosis factor alpha (TNF- α), also known as cachectin, is a 157-amino acid cytokine (~17.5 kDa) and a prominent member of the TNF superfamily. TNF- α is a key immunomodulatory molecule with potent proinflammatory effects across a broad spectrum of target cells. It is synthesized primarily by macrophages, natural killer (NK) cells, and activated T and B lymphocytes, and exists in both soluble and membrane-bound trimeric forms.

TNF- α initiates signaling by binding to two distinct receptors:

- 1.) TNF receptor 1 (TNF-R1), which is broadly expressed on most normal and malignant cells
- 2.) TNF receptor 2 (TNF-R2), found primarily on endothelial cells and immune cells

Upon receptor binding and trimerization, TNF- α triggers a cascade of signaling pathways that regulate critical biological processes including hematopoiesis, cell differentiation, apoptosis, lipid metabolism, endothelial activation, tumor development, and immune surveillance. Aberrant TNF- α signaling is associated with a wide range of pathologies, such as autoimmune diseases, cancer, osteoporosis, atherosclerosis, and type 2 diabetes.

This TNF Receptor 1 Polyclonal Antibody is great for Immunohistochemistry and enables precise

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detection of TNF-R1 expression patterns in tissue samples, aiding in the study of inflammatory responses, tumor microenvironments, and TNF- α -mediated signaling pathways in both normal and diseased states.

Known Reactivity Species:

Bovine, Canine, Drosophila, Hamster, Human, Monkey, Mouse, Porcine, Rabbit, Rat, Sheep, Xenopus, Yeast

Format:

Purified

Immunogen:

A synthetic peptide corresponding to a portion of mouse TNF-R1. This sequence is completely conserved in rat and human. Accession no. P25118.

Formulation

PBS containing 50% glycerol and 0.09% sodium azide.

Storage and Stability

Store frozen product at or below -20°C. Thawed product may be stored for 2-4 weeks at 4°C. For optimal storage, aliquot and store at -20°C.

Product Preparation

Purified by peptide affinity chromatography

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

Western Blot: 1ug/ml

Immunohistochemistry(paraffin): 1-10ug/ml

Immunoprecipitation: 12.5ug/ml

These are recommended concentrations.

End user should determine optimal concentrations for their applications.

Country of Origin

USA

References

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