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Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12)

Catalog # ABO14903

Specification

Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) - Product Information

Application	**E**
Primary Accession	P05231
Host	**Mouse**
Isotype	**Mouse IgG2a**
Reactivity	**Human**
Clonality	**Monoclonal**
Format	**Lyophilized**

Description
Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) . Tested in ELISA applications. This antibody reacts with Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500 µg/ml.

Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) - Additional Information

Gene ID 3569

Other Names
Interleukin-6, IL-6, B-cell stimulatory factor 2, BSF-2, CTL differentiation factor, CDF, Hybridoma growth factor, Interferon beta-2, IFN-beta-2, IL6 (HGNC:6018), IFNB2

Application Details
ELISA (Cap), 1-5 µg/ml, Human

Subcellular Localization
Secreted

Contents
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen
sf21-derived human IL6 recombinant protein (Position: P29-M212).

Cross Reactivity
No cross-reactivity with other proteins.

Storage	**Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid**

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repeated freeze-thaw cycles.

Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) - Protein Information

Name IL6 (HGNC:6018)

Synonyms IFNB2

Function
Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism. Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway (Probable). The interaction with the membrane-bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans- signaling'. Alternatively, 'cluster signaling' occurs when membrane- bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells (Probable).

Cellular Location
Secreted.

Tissue Location
Produced by skeletal muscle.

Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) - Images

Anti-human IL6 Antibody Picoband™ (monoclonal, 7D12) - Background

Interleukin-6 (IL-6) is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is one of the most important mediators of fever and of the acute phase response. IL-6 is also essential for hybridoma growth and is found in many supplemental cloning media such as briclone. Bowcock et al. (1988) assigned the IL6 gene to chromosome 7p21. By in situ hybridization and Southern blot analysis of mouse-human hybrid cell lines, Sutherland et al. (1988) mapped the IL-6 gene to chromosome 7p15.