

IL-18 (Interleukin-6) / Interferon beta-2 (Hybridoma Growth Factor) Antibody

Mouse Monoclonal Antibody [Clone IL18/7781]

| Catalog No | Format | Size |
|------------------|---|--------|
| 3606-MSM11-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3606-MSM11-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3606-MSM11-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

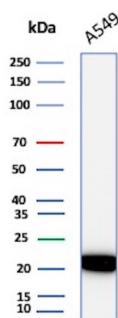
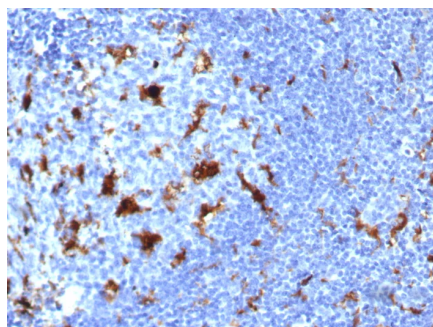
| Applications | Tested Dillution | Note |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

Product Details

| | |
|-------------------------------|--|
| Clone | IL18/7781 |
| Gene Name | IL18 |
| Immunogen | Recombinant fragment (around aa1-193) of human IL-18 protein (exact sequence is proprietary) |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2 / Kappa |
| Mol. Weight of Antigen | 18kDa |
| Cellular Localization | Secreted. |
| Species Reactivity | Human |
| Positive Control | A549 cells, Human heart or adrenal gland. Stimulated peritoneal macrophages. |

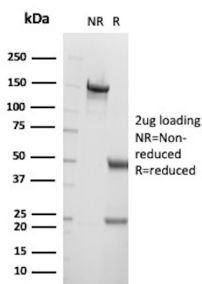
*Optimal dilution for a specific application should be determined.

Product Images for IL-18 (Interleukin-6) / Interferon beta-2 (Hybridoma Growth Factor) Antibody

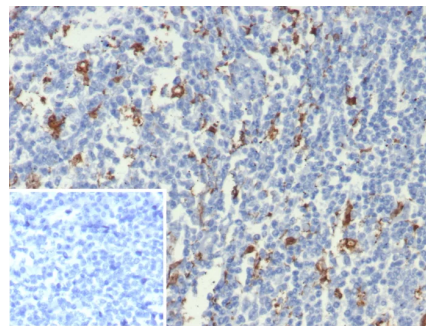


Formalin-fixed, paraffin-embedded human lymph node stained with IL-18 Mouse Monoclonal Antibody (IL18/7781) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

Western blot analysis of A549 lysate using IL-18 Mouse Monoclonal Antibody (IL18/7781).



SDS-PAGE Analysis of Purified Interleukin-18 Mouse Monoclonal Antibody (IL18/7781). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human tonsil stained with IL-18 Mouse Monoclonal Antibody (IL18/7781) at 2ug/ml. Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Four structurally related IL-1 receptor ligands have been described. These include three agonists designated IL-1 α , IL-1 β and IL-1 γ /IL-18 and a specific receptor antagonist, IL-1R α . IL-1 α and IL-1 β play critical roles in the regulation of the immune response and inflammation, serving as activators of T and B lymphocytes and NK (natural killer) cells. IL-18 (also referred to as IL-1 γ) has been shown to augment the secretion of IFN- γ from T lymphocytes and increase NK cell activity in spleen cells. IL-18 exhibits 19% and 12% identity with IL-1 α and IL-1 β respectively over the 12 β -strands of the β -trefoil fold domain, which is a signature feature of the IL-1 family. The unusual leader sequence of IL-18 may be analogous to the IL-1 β pro-domain which must be cleaved by the serine protease ICE for optimal secretion and biological activity. Originally described as IGIF (IFN- γ -inducing factor), IL-18 is induced by mouse liver subsequent to challenge with lipopolysaccharide (LPS).

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Cardiovascular, Cytokine Signaling, Immunology, Infectious Disease, Nuclear Marker