

## 39-2154: Anti-IL18 Polyclonal Antibody

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB,IHC-P,ICC
<b>Reactivity :</b>	Human
<b>Gene :</b>	IL18
<b>Gene ID :</b>	3606
<b>Uniprot ID :</b>	Q14116
<b>Format :</b>	Lyophilized
<b>Alternative Name :</b>	Interleukin-18; IL-18; Iboctadekin; Interferon gamma-inducing factor; IFN-gamma-inducing factor; Interleukin-1 gamma; IL-1 gamma; IL18; IGIF, IL1F4
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	E.coli-derived human IL18 recombinant protein (Position: Y37-D193). Human IL18 shares 66% and 64% amino acid (aa) sequences identity with mouse and rat IL18, respectively.

### Description

Interleukin-18, also known as IL18, is a protein which in humans is encoded by the IL18 gene. IL-18 is a cytokine produced by macrophages and other cells that belongs to the IL-1 superfamily. It is mapped to 11q22.2-q22.3. IL-18 works by binding to the interleukin-18 receptor, and together with IL-12, it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon- $\gamma$  (IFN- $\gamma$ ) or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.

### Product Info

<b>Amount :</b>	100 $\mu$ g/vial
<b>Purification :</b>	Immunogen affinity purified.
<b>Content :</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> . Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
<b>Storage condition :</b>	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

### Application Note

Western blot : 0.1-0.5  $\mu$ g/ml; Immunohistochemistry(Paraffin-embedded Section) : 0.5-1  $\mu$ g/ml;  
Immunohistochemistry(Frozen Section) : 0.5-1  $\mu$ g/ml

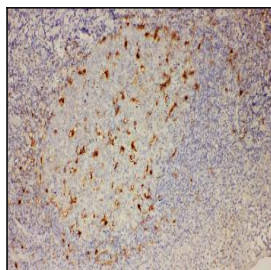


Figure 1: Anti-IL-18 antibody(39-2154). IHC(P): Human Tonsil Tissue.

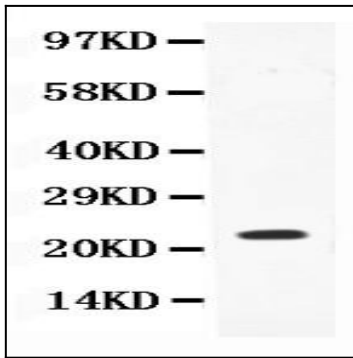


Figure 2: Anti-IL-18 antibody(39-2154). Lanes: Anti-IL18(39-2154) at 0.5ug/ml. WB: HELA Whole Cell Lysate at 40ug. Predicted band size: 22 kDa. Observed band size: 22 kDa.