IL-38 Monoclonal Antibody (H127C), eBioscience™

Catalog Number 14-7385-82

**Details**
- **Size**: 100 µg
- **Host/Isotope**: Mouse / IgG2b, kappa
- **Class**: Monoclonal
- **Type**: Antibody
- **Clone**: H127C
- **Conjugate**: Unconjugated
- **Form**: Liquid
- **Concentration**: 0.5 mg/mL
- **Purification**: Affinity chromatography
- **Storage buffer**: PBS, pH 7.2
- **Contains**: 0.09% sodium azide
- **Storage Conditions**: 4°C

**Species Reactivity**
- **Species reactivity**: Human

**Tested Applications**
- **ELISA (ELISA)**: Assay-Dependent
- **Flow Cytometry (Flow)**: Assay-Dependent
- **Immunohistochemistry (Paraffin) (IHC (P))**: 0.1 µg/mL
- **Immunoprecipitation (IP)**: Assay-Dependent
- **Western Blot (WB)**: Assay-Dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Product specific information**
Description: The monoclonal antibody H127C recognizes human IL-38. IL-38 is a member of the Interleukin-1 family (IL-1F) and shares homology with IL-1R antagonist (IL-1Ra) and IL-36R antagonist (IL-36Ra). IL-38 is expressed mostly in the skin and proliferating B cells of the tonsil and is also present at low levels in the heart and placenta. IL-38 functions as an anti-inflammatory cytokine that inhibits IL-36 by binding to IL-36R and also inhibits the production of IL-17 and IL-22. Gene polymorphisms of IL-38 are associated with psoriatic arthritis, ankylosing spondylitis, and heart disease. Applications Reported: This H127C antibody has been reported for use in flow cytometric analysis, immunoprecipitation, western blotting, ELISA, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections. Applications Tested: This H127C antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded human tissue using low pH antigen retrieval and can be used at less than or equal to 0.1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. Purity: Greater than 90%, as determined by SDS-PAGE. Aggregation: Less than 10%, as determined by HPLC. Filtration: 0.2 µm post-manufacturing filtered.

**Background/Target Information**
The cytokine IL-1 is responsible for initiating a variety of activities through the activation of transcription factors, NF-kappa B and AP-1, thereby promoting host response to injury or infection. IL-1F10 (Interleukin-1 family member 10), also known as FIL1T, IL1HY2 or FKSG75, is highly expressed in the skin, spleen and proliferating B-cells of the tonsil. IL-1F10 binds soluble IL-1 receptor type 1, and is one of nine Interleukin 1 families clustered on chromosome 2, where it is thought to participate in the regulation of adapted and innate immune responses. IL-1F10 and IL-1RN polymorphisms may play an important role in the susceptibility to developing rheumatoid arthritis.

IL-38 Antibody (14-7385-82) in IHC (P)

Immunohistochemistry of formalin-fixed paraffin embedded human skin tissue using 0.1 µg/mL of Mouse IgG2b K Isotype Control Purified (left) or 0.1 µg/mL of Anti-Human IL-38 Purified (right) followed by Anti-Mouse Biotin, Streptavidin-HRP, and DAB visualization. Nuclei are counterstained with hematoxylin.