



Mouse Anti-IL-18 [MD339]: MC0049, MC0049RTU7

Intended Use: For Research Use Only

Description: Four structurally related IL-1 receptor ligands have been described. These include three agonists designated IL- 1α , IL- 1β and IL- 1γ /IL-18 and a specific receptor antagonist, IL- 1α and IL- 1β 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 known as IL- 1γ) 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- 1α and IL- 1β 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- 1β prodomain 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).

Specifications

Clone: MD339
Source: Mouse
Isotype: IgG1
Reactivity: Human

Immunogen: Human Fetuin A protein aa 68-367

Localization: Secreted

Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)

Storage: Store at 2°-8°C

Applications: IHC

Package:

Description	Catalog No.	Size
IL-18 [MD339] Concentrated	MC0049	1 ml
IL-18 [MD339] Prediluted	MC0049RTU7	7 ml

IHC Procedure*

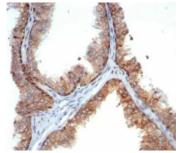
Positive Control Tissue: Heart, adrenal gland

Concentrated Dilution: 50-200

Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C

Incubation Time and Temp: 30-60 minutes @ RT

Detection: Refer to the detection system manual * Result should be confirmed by an established diagnostic procedure.



FFPE human prostate stained with anti-IL-18 using DAB

References:

- 1. Collagen type I-mediated mechanotransduction controls epithelial cell fate conversion during intestinal inflammation. Kobayashi S, et al. Inflamm Regen 42:49, 2022.
- 2. Activation of the Nlrp3 inflammasome in infiltrating macrophages by endocannabinoids mediates beta cell loss in type 2 diabetes. Tony Jourdan, et al. Nat Med. Sep;19(9):1132-40, 2013.
- 3. Human chromosome 11 DNA sequence and analysis including novel gene identification. Todd D Taylor, et al. Nature. Mar 23;440(7083):497-500, 2006.

Doc. 100-MC0049