Revision 1

Store at -20C

#54943

IL-18 (D2F3B) Rabbit mAb

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	22	Rabbit IgG	#Q14116	3606

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

IL-18 (D2F3B) Rabbit mAb recognizes endogenous levels of total IL-18 protein. This antibody detects 110 and 250 kDa bands of unknown origin in some cell lines.

Source / Purification

Monoclonal antibody is produced by immunizing animals with human IL-18 recombinant protein.

Background

Interleukin-18 (IL-18), originally known as interferon-gamma inducing factor (IGIF), is part of the IL-superfamily of cytokines (1,2). This proinflammatory cytokine is synthesized as an inactive precursor which requires cleavage by Caspase-1 to become an active, mature molecule, which is secreted by monocytes and macrophages (3,4,6). It induces IFNγ production in T-helper-1 (Th1) cells and natural killer (NK) cells, and can regulate innate immunity via both Th1 and Th2 responses (4,5). Elevated IL-18 levels are associated with autoimmune disease, but may be balanced by binding to IL-18 binding protein (IL-18BP), which along with IL-18 neutralizing antibodies, are being examined in clinical trials (6,7).

Background References

1. Okamura, H. et al. (1995) *Nature* 378, 88-91.
2. Ushio, S. et al. (1996) *J Immunol* 156, 4274-9.
3. Ghayur, T. et al. (1997) *Nature* 386, 619-23.
4. Dinarello, C.A. (1999) *Methods* 19, 121-32.
5. Nakanishi, K. et al. (2001) *Annu Rev Immunol* 19, 423-74.
6. Novick, D. et al. (1999) *Immunity* 10, 127-36.
7. Dinarello, C.A. et al. (2013) *Front Immunol* 4, 289.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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Limited Uses

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