

## Anti-IL-18 [ABT-325 (A-794722.0; 2.5(E))] Standard Size Ab03375-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** ABT-325 (A-794722.0; 2.5(E))

**Alternative Name(s) of Target:** Interleukin-18; IL18; IGIF; IL1F4; Iboctadekin; Interferon gamma-inducing factor; IFN-gamma-inducing factor; Interleukin-1 gamma; IL-1 gamma; ABT325; 2.5(E)mg1

**UniProt Accession Number of Target Protein:** Q14116

**Published Application(s):** IP, neutralize, ELISA, FC

**Published Species Reactivity:** Human, Cynomolgus Monkey

**Immunogen:** The original antibody was generated by immunizing transgenic Xenomouse with human IL-18 in phosphate-buffered saline.

**Specificity:** This antibody binds human and cynomolgus monkey IL-18 and does not cross react with mouse, rat or dog IL-18. Interleukin-18 is a pro-inflammatory cytokine primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses.

**Application Notes:** The binding characterization of this antibody to human and cynomolgus monkey IL-18 was done using BIACORE assay. The binding affinity of the human IgG1 version was reported to be  $K_d=0.196$  nM. This antibody can be used to immunoprecipitate human and cynomolgus monkey IL-18. This antibody neutralized both recombinant (KG-1 and RBA) and natural IL-18 (WBA) in an in vitro assay. The ability of this antibody to neutralize natural human IL-18-induced IFN $\gamma$  in an inflammatory environment in vivo, the severe combined immunodeficient (SCID) mouse model was used wherein human PBMCs were injected into the mouse and the cells were stimulated in vivo to produce human IL-18 (HuPBMC-SCID model). This antibody inhibited human IL-18-dependent human IFN $\gamma$  production in vivo with a clear dose-response by either route of administration. The binding of C1q to this antibody was determined using standard ELISA techniques (US20050100965). This antibody was used in the generation of a dual variable domain immunoglobulin (DVD-Ig) in combination with anti-IL-12 antibody for therapeutic use for targeting disease where multiple mediators contribute to overall disease pathogenesis (PMID: 17934452).

**Antibody First Published in:** PMID:

**Note on publication:**

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.