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Product Data Sheet

Biotin anti-human IL-32αβγδ

Catalog # / Size: 513503 / 50 μg
Clone: KU32-52
Isotype: Mouse IgG1, κ
Immunogen: Recombinant human IL-32α
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**

Applications:

Applications: ELISA Detection - *Quality tested*
FC, WB, IF, IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.2-1 μg/ml is recommended. To obtain a linear standard curve, serial dilutions of human IL-32 recombinant protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application

Application Notes: **ELISA[1] Detection:** The biotinylated KU32-52 antibody is useful as a detection antibody in a sandwich ELISA assay, when used in conjunction with purified KU32-07 or KU32-56 antibody as the capture antibody for measuring human IL-32.
Additional reported applications (for the relevant formats) include: Western blotting, immunofluorescence and immunoprecipitation.

Application References:
1. Kim KH, *et al.* 2008. *J. Immunol. Methods* 333:38.
2. Greene CM, *et al.* 2009. *Am J. Respir Crit Care Med.* PubMed
3. Li W, *et al.* 2010. *J. Immunol.* 185:5056. PubMed
4. Soyka MB, *et al*. 2012. *Allergy*. DOI:10.1111/j.1398-9995.2012.02820.x. (FC, IF) PubMed

Description: Interleukin 32 (IL-32),previously known as a transcript (NK4), is produced by mitogen-activated lymphocytes, by IFNγ -activated epithelial cells or by IL-12 and IL-18-activated NK cells.Its expression is increased following activation of T-cells by mitogens or the activation of NK cells by IL-2.IL-32 activates NF-κ-B and p38 MAPK cytokine signal pathways. It has been suggested that IL-32 may play a role in autoimmune and inflammatory diseases such as rheumatoid arthritis.IL-32 is unusual in that it does not share sequence homology with known cytokine families and is highly expressed in immune tissues. IL-32 exists in at least four differentially spliced isoforms (α, β, γ and δ)with predicted molecular weight: ~26 kD.IL-32α is the shortest and most abundant of four potential splice variants of the pro-inflammatory cytokine IL-32.Potential modifications include myristoylation and N-glycosylation. Transfected IL-32 alpha was more likely to be cell-associated as compared to IL-32β, suggesting an intracellular function.

Antigen References:
1. Kim KH, *et al.* 2008. *J. Immunol. Methods* 333:38.
2. Conti P, *et al.* 2007. *Autoimmun. Rev.* 6:131.
3. Chen Q, *et al.* 2006. *Vitam Horm.* 74:207.
4. Kim SH, *et al.* 2005. *Immunity* 22:131.
5. Cagnard N, *et al.* 2005. *Eur. Cytokine Netw.* 16:289.
6. Banda NK, *et al.* 2003. *J. Immunol.* 170:2100.

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