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# **Product Information**

Anti-Interleukin-22 Receptor, C-Terminal produced in rabbit, affinity isolated antibody

Catalog Number 15782

## **Product Description**

Anti-Interleukin-22 Receptor (IL-22R), C-Terminal is produced in rabbit using a synthetic peptide (DSLFRGLALTVQWES) corresponding to amino acids 560-574 of human IL-22R precursor<sup>1</sup> as immunogen. The antibody is purified by immunoaffinity chromatography.

Anti-Interleukin-22 Receptor, C-Terminal recognizes human IL-22R, ~62 kDa, by immunoblotting.

Interleukin-22 , also designated IL-TIF for IL-10 related T cell-derived inducible factor, is a novel cytokine. The receptor for IL-22 (IL-22R, also termed CRF2-9, IL-TIF-R1 chain, and zcytor11), is a new member of the class II cytokine receptor family. IL-22R, a 574 amino acid type I transmembrane protein, contains an extracellular region, a transmembrane segment, and a cytoplasmic domain. It shares ~15% amino acid identity overall to IL-10R1 and 17% amino acid identity within the extracellular region.

IL-22R forms a complex with IL-10 receptor  $\beta$  chain and mediates IL-22 signaling. IL-22 and its receptor activate the JAK-STAT signaling pathway. IL-22R is expressed in normal liver and kidney and their cell lines HepG2 and TK-10. A soluble form of the IL-22 receptor, termed IL-22 binding protein (IL-22BP) and IL-22 receptor- $\alpha$  2 (IL-22R $\alpha$ 2), has been identified. <sup>5-7</sup> IL-22BP prevents binding of IL-22 to the functional cell surface IL-22R complex and neutralizes IL-22 activity. LPS (lipopolysaccharide) induces IL-22 expression, which indicates a role for IL-22 in inflammatory responses.

### Reagent

Supplied at ~0.5 mg/ml in phosphate buffered saline containing 0.02% sodium azide.

## **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

## Storage/Stability

Antibody can be stored at 2-8 °C for three months and at -20 °C for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

### **Product Profile**

 $\underline{Immunoblotting} \hbox{: the recommended working antibody concentration is 0.5-1 $\mu g/ml$ using human HepG2 cell lysates.}$ 

**Note**: In order to obtain the best results and assay sensitivities in various techniques and preparations, we recommend determining optimal working dilutions by titration.

### References

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