

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### IL-5R $\alpha$ (K68) pAb

Cat No.: BS3560

Host: Rabbit

Reactivity: Human, Mouse

#### BACKGROUND

Interleukin 5 (IL-5) is a soluble T cell-derived factor, also known as T cell-replacing factor (TRF), that induces B cell and eosinophil growth and differentiation. IL-5 exerts its biological activity through the IL-5 receptor (IL-5R), which is composed of two chains: an  $\alpha$  chain that binds IL-5 with low affinity and a  $\beta$  chain that does not bind IL-5, but together with the IL-5  $\alpha$  chain, constitutes the high affinity IL-5 receptor. The cytoplasmic domain of both the  $\alpha$  and  $\beta$  chains is essential for signal transduction. Specifically, the membrane-proximal proline-rich sequence of the cytoplasmic domain of the IL-5R receptor  $\alpha$  subunit, IL-5R $\alpha$ , is critical for the IL-5 induced proliferative response, expression of nuclear proto-oncogenes and tyrosine phosphorylation of cellular proteins, such as JAK1 and JAK2. Alternative splicing of the IL-5R $\alpha$  gene produces several isoforms, including a membrane-anchored isoform and a soluble isoform. The soluble isoform competes with IL-5 for binding to IL-5R and inhibits IL-5-mediated receptor activation and inflammatory mediator production, and, therefore, may be useful in treating asthma.

#### PRODUCT

1 mg/ml in Phosphate buffered saline (PBS) with 0.05

#### PURIFICATION & PURITY

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

#### APPLICATIONS

IHC: 1:50 ~ 1:200 (Recommended Dilutions)

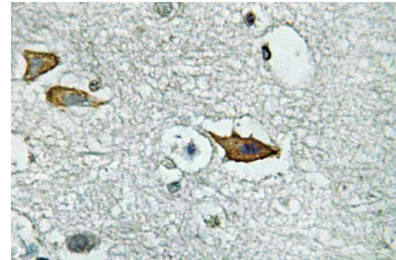
#### STORAGE & STABILITY

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

#### SPECIFICITY

IL-5R $\alpha$  (K68) pAb detects endogenous levels of IL-5R $\alpha$  protein.

#### DATA



**Immunohistochemistry (IHC)** analyzes of IL-5R $\alpha$  (K68) pAb in paraffin-embedded human brain tissue.

#### RESEARCH USE

For research use only, not for use in diagnostic procedures.

Bioworld Technology, Inc.

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