

IL-11RA Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50347

Clone# BP6315

Predicted Molecular Wt: 45kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q14626

Background:

Interleukin-11 Receptor Alpha (IL-11RA) is a subunit of the functional receptor for the pleiotropic cytokine IL-11. It forms a signaling complex with glycoprotein 130 (gp130), activating downstream JAK/STAT, MAPK and PI3K pathways.

Primarily expressed in epithelial, stromal, hematopoietic and neuronal cells, IL-11RA mediates critical biological functions including tissue regeneration (intestinal mucosa, liver, bone), hematopoietic support (megakaryopoiesis, platelet production) and embryonic development.

Interleukin-11 Receptor Alpha (IL-11RA) holds emerging diagnostic and prognostic relevance in fibro-inflammatory diseases and epithelial cancers. Its overexpression in tissues and elevated soluble levels in serum correlate with pathological fibrosis (lung, liver, kidney), serving as a potential biomarker for disease severity and progression. In oncology, upregulated IL-11RA expression is linked to gastrointestinal cancers (colorectal, gastric), breast cancer and metastasis, where it promotes tumor-stroma crosstalk, chemoresistance and poor survival.

Subcellular location:

Cytoplasm and membrane

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to BioLynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

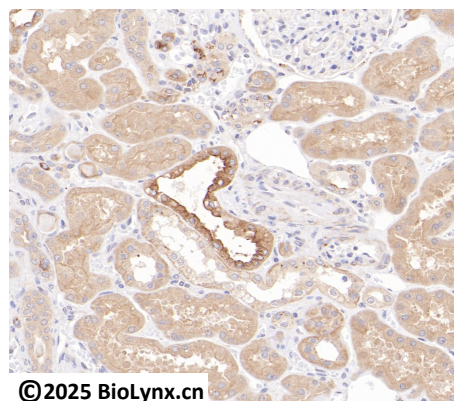
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Ng, B. et al. (2022) Int J Mol Sci 23.
- Dong, J. et al. (2021) Nat Commun 12:66.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney labelling IL-11RA with BP6315.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.