Anti-IL-11RA Antibody [A6G8]

HA600056

Product Type:	Mouse monoclonal IgG2b, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 45 kDa
Clone number:	A6G8

Description: Interleukin 11 receptor, alpha subunit is a subunit of the interleukin 11 receptor. IL11RA is its human gene. Interleukin 11 is a stromal cell-derived cytokine that belongs to a family of pleiotropic and redundant cytokines that use the gp130 transducing subunit in their high affinity receptors. This gene encodes the IL-11 receptor, which is a member of the hematopoietic cytokine receptor family. This particular receptor is very similar to ciliary neurotrophic factor, since both contain an extracellular region with a 2-domain structure composed of an immunoglobulin-like domain and a cytokine receptor-like domain. Alternative splicing has been observed at this locus and two variants, each encoding a distinct isoform, have been identified.

Immunogen: Recombinant protein within human IL-11RA aa 1-200.

Positive control: K562 cell lysate, 293T cell lysate, TF-1 cell lysates, MCF-7 cell lysate, mouse kidney tissue lysate, human kidney tissue, human prostate tissue, human prostate carcinoma tissue.

Subcellular location: Membrane; Secreted.

Database links: SwissProt: Q14626 Human | Q64385 Mouse

Recommended Dilutions:

WB	1:500
IHC-P	1:200-1:600

Storage Buffer: PBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein G affinity purified.

Images

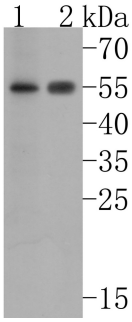

Fig1: Western blot analysis of IL-11RA on different lysates with Mouse anti-IL-11RA antibody (HA600056) at 1/500 dilution.

Lane 1: K562 cell lysate
Lane 2: 293T cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 45 kDa
Observed band size: 55 kDa

Exposure time: 30 seconds;

12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA600056) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:20,000 dilution was used for 1 hour at room temperature.

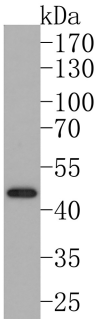

Fig2: Western blot analysis of IL-11RA on TF-1 cell lysates with Mouse anti-IL-11RA antibody (HA600056) at 1/500 dilution.

Lysates/proteins at 10 µg/Lane.

Predicted band size: 45 kDa
Observed band size: 45 kDa

Exposure time: 1 minute;

10% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA600056) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:20,000 dilution was used for 1 hour at room temperature.

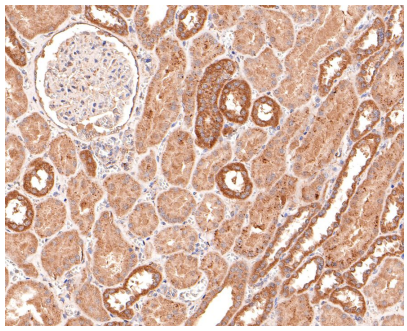

Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Mouse anti-IL-11RA antibody (HA600056) at 1/600 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA600056) at 1/600 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

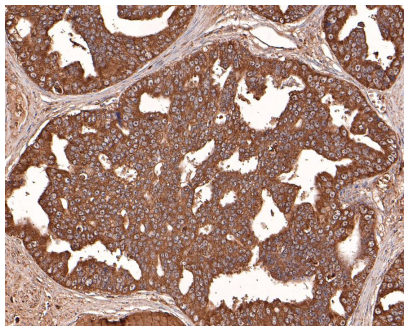

Fig4: Immunohistochemical analysis of paraffin-embedded human prostate tissue with Mouse anti-IL-11RA antibody (HA600056) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA600056) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

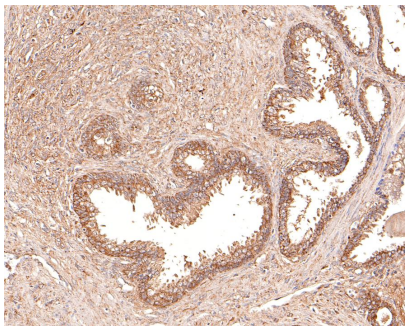

Fig5: Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue with Mouse anti-IL-11RA antibody (HA600056) at 1/600 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA600056) at 1/600 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Background References

1. Korakavi N. et. al. Evolution of the phenotype of craniosynostosis with dental anomalies syndrome and report of IL11RA variant population frequencies in a Crouzon-like autosomal recessive syndrome. Am J Med Genet A. 2019 Apr
2. Brischoux-Boucher E. et. al. IL11RA-related Crouzon-like autosomal recessive craniosynostosis in 10 new patients: Resemblances and differences. Clin Genet. 2018 Oct