Anti-IQGAP2 Antibody [JE64-93]

HA721096

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 181 kDa
Clone number:	JE64-93

Description: Ras GTPase-activating-like protein IQGAP2 is an enzyme that in humans is encoded by the IQGAP2 gene. This gene encodes a member of the IQGAP family. The encoded protein contains three IQ domains, one calponin homology domain, one Ras-GAP domain and one WW domain. This protein interacts with components of the cytoskeleton, with cell adhesion molecules, and with several signaling molecules to regulate cell morphology and motility. It also acts as a tumor suppressor and has been found to play a role in regulating innate antiviral responses. Alternative splicing results in multiple transcript variants. IQGAP2 has been shown to interact with CDC42 and RAC1.

Immunogen: Recombinant protein within human IQGAP2 aa 1,301-1,500/1,575.

Positive control: Human placenta tissue lysates, human liver tissue lysate, Jurkat cell lysate, human gallbladder tissue, human prostate tissue.

Subcellular location: Actin cytoskeleton, microtubule, cytosol, extracellular exosome, plasma membrane, cell surface, cytoplasm, filopodium, lamellipodium, microvillus, secretory granule membrane

Database links: SwissProt: Q13576 Human

Recommended Dilutions:

WB	1:1,000-1:5,000
IHC-P	1:100

Storage Buffer: 1*TBS (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 A affinity purified.

Images

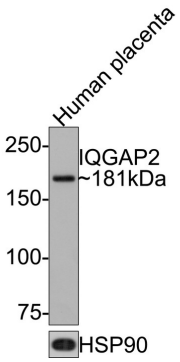

Fig1: Western blot analysis of IQGAP2 on human placenta tissue lysates with Rabbit anti-IQGAP2 antibody (HA721096) at 1/5,000 dilution.

Lysates/proteins at 10 µg/Lane.

Predicted band size: 181 kDa
Observed band size: 181 kDa

Exposure time: 1 minute;

6% 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 (HA721096) at 1/5,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

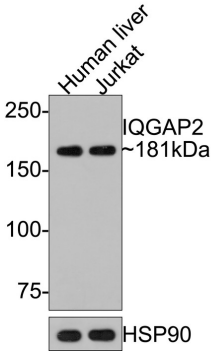

Fig2: Western blot analysis of IQGAP2 on different lysates with Rabbit anti-IQGAP2 antibody (HA721096) at 1/1,000 dilution.

Lane 1: Human liver tissue lysate (20 µg/Lane)
Lane 2: Jurkat cell lysate (10 µg/Lane)

Predicted band size: 181 kDa
Observed band size: 181 kDa

Exposure time: 2 minutes;

6% 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 (HA721096) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

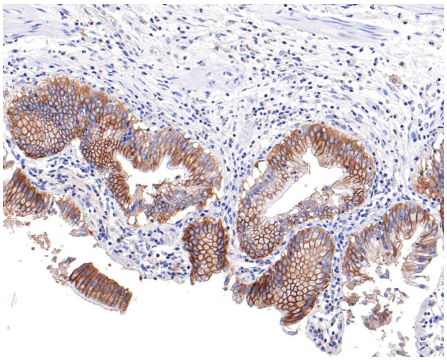

Fig3: Immunohistochemical analysis of paraffin-embedded human gallbladder tissue with Rabbit anti-IQGAP2 antibody (HA721096) at 1/100 dilution.

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 (HA721096) at 1/100 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.

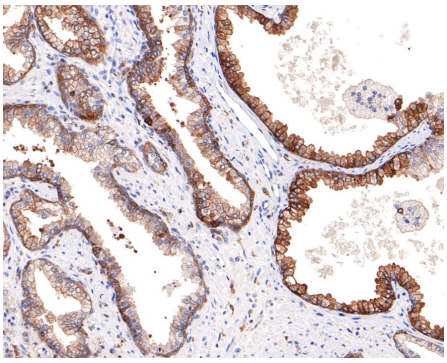

Fig4: Immunohistochemical analysis of paraffin-embedded human prostate tissue with Rabbit anti-IQGAP2 antibody (HA721096) at 1/100 dilution.

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 (HA721096) at 1/100 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. de Ligt J., et al. Diagnostic exome sequencing in persons with severe intellectual disability. N. Engl. J. Med. 367:1921-1929(2012).
2. Kumar D, et al. Reduced expression of IQGAP2 and higher expression of IQGAP3 correlates with poor prognosis in cancers. PLoS One. 2017 Oct 26;12(10):e0186977.