**AGO2 Polyclonal ANTIBODY**

**Catalog Number:** 10686-1-AP

### Basic Information

- **Catalog Number:** 10686-1-AP
- **GenBank Accession Number:** BC007633
- **Recommended Dilutions:** IP 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
  - IHC 1:50-1:500
- **Size:** 24 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1032
- **GenBank Accession Number:** 27761
- **GeneID (NCBI):** 27161
- **Full Name:** eukaryotic translation initiation factor 2C, 2
- **Calculated MW:** 97 kDa
- **Observed MW:** 90-95 kDa

### Applications

- **Tested Applications:** IHC, IP, ELISA
- **Cited Applications:** CLIP, RIP, WB
- **Species Specificity:** human, mouse
- **Cited Species:** fish, human, mouse

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

### Background Information

**EIF2C2,** also named as AGO2, belongs to the argonaute family and Ago subfamily. It is required for RNA-mediated gene silencing (RNAi) by the RNA-induced silencing complex (RISC). The minimal RISC appears to include EIF2C2/AGO2 bound to a short guide RNA such as a microRNA (miRNA) or short interfering RNA (siRNA). EIF2C2 may inhibit translation initiation by binding to the 7-methylguanosine cap, thereby preventing the recruitment of the translation initiation factor eIF4E. It also inhibits translation initiation via interaction with EIF4, which itself binds to the 80S ribosomal subunit and prevents its association with the 40S ribosomal subunit. EIF2C2 can also upregulate the translation of specific mRNAs under certain growth conditions. This antibody is specific to EIF2C2.

**EIF2C2 exists two isoforms and molecular weight of isoforms are 97 kDa and 94 kDa.**

### Notable Publications

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<thead>
<tr>
<th>Author</th>
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<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Xiaoxiang Chen</td>
<td>30250022</td>
<td>Cell Death Dis</td>
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<td>Ni Zeng</td>
<td>31520740</td>
<td>Toxicol In Vitro</td>
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<td>Qian Hua</td>
<td>31488218</td>
<td>J Hematol Oncol</td>
<td>RIP</td>
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### Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

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W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10686-1-AP(EIF2C2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.


Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 10686-1-AP( AGO2 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).