**Basic Information**

- **Catalog Number:** 13762-1-AP
- **Size:** 33 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG4735
- **Gene Bank Accession Number:** BC045609
- **GeneID (NCBI):** 55626
- **Full Name:** autophagy/beclin-1 regulator 1
- **Calculated MW:** 1208aa, 133 kDa
- **Observed MW:** 130-135 kDa

**Recommended Dilutions:**

- **WB:** 1:200-1:1000
- **IHC:** 1:20-1:200
- **IF:** 1:10-1:100

**Recommended Applications:**

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** IHC, WB

**Species Specificity:**

- human, mouse, rat

**Cited Species:**

- human

**Background Information**

AMBRA1 (Activating molecule in BECN1-regulated autophagy protein 1), also known as WDR94 or KIAA1736, is a 1,298 amino acid protein that contains three WD repeats. AMBRA1 regulates autophagy and development of the nervous system. Involved in autophagy in controlling protein turnover during neuronal development, and in regulating normal cell survival and proliferation. This antibody works well in WB, IHC and IF application.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yasuo Miki</td>
<td>27875637</td>
<td>Brain Pathol</td>
<td>WB, IHC</td>
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</tbody>
</table>

**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.05% 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:**

- T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Mouse brain tissue were subjected to SDS PAGE followed by western blot with 13762-1-AP(AMBRA1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human liver cancer using 13762-1-AP(AMBRA1 antibody) at dilution of 1:50 (under 10x lens).

Immunofluorescent analysis of HepG2 cells using 13762-1-AP(AMBRA1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Anti-IgG IgG(H+L).