Basic Information

- **Catalog Number:** 20543-1-AP
- **Size:** 36 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG2329

Applications

- **Tested Applications:** IF, WB, ELISA
- **Cited Applications:** CoIP, FC, IF, IHC, IP, WB
- **Species Specificity:** recombinant protein
- **Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Protein tags are protein or peptide sequences located either on the C- or N-terminal of the target protein, which facilitates one or several of the following characteristics: solubility, detection, purification, localization and expression. The DYKDDDDK (FLAG) peptide has been used extensively as a general tag in expression vectors. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion. N-terminal DDDDK vectors provide an EK cleavage site for removal of the fusion tag. The DDDDK peptide is likely to be located on the surface of a fusion protein because of its hydrophilic nature. As a result, the DDDDK peptide is more likely to be accessible to antibodies. A DDDDK-tag can be used in many different assays that require recognition by an antibody, such as western blotting, immunocytochemistry, immunoprecipitation, flow cytometry, protein purification, and in the study of protein-protein interactions, cell ultrastructure, and protein localization and so on. This antibody is a rabbit polyclonal antibody raised against 3xFlag (3xDYKDDDDK) sequence and recognizes the (1x) and (3x)DYKDDDDK peptide and detects DDDDK-tagged proteins. Anti-FLAG is a registered trademark of Sigma-Aldrich Biotechnology.

Notable Publications

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<thead>
<tr>
<th>Author</th>
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<tbody>
<tr>
<td>M. Zatyka</td>
<td>25274773</td>
<td>Hum Mol Genet</td>
<td>IP</td>
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<tr>
<td>Kamil Kobylecki</td>
<td>30269854</td>
<td>RNA</td>
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<td>S. Prpar Minevc</td>
<td>27065936</td>
<td>Sci Rep</td>
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Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment. Storage Buffer: PB5 with 0.1% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20ºC 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 (1/312) 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

Western blot of DDDDK-tagged fusion protein with 20543-1-AP(DDDDK tag antibody) at various dilutions.

Immunofluorescent analysis of Transfected HEK-293 cells using 20543-1-AP(DDDDK tag antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L)