

TAp63 (Transactivation domain p63, TAp63-4.1)

| Catalogue No. | Pack Size |
|---------------|-----------|
| 8021-1-20 | 20 µg |
| 8021-1-100 | 100 µg |

Product Description

p63 is a tumor-suppressor gene from the p53 family involved in epithelial stem cell maintenance of the skin and mammary glands. The p63 protein has two main isoforms with varied functions, one lacks (Δ Np63) and the other retains the transactivation domain (TAp63).

Δ Np63 is commonly studied, but TAp63 has been shown to be crucial for skin cell maintenance and is implicated in breast cancer. Recent research suggests TAp63 suppresses tumor progression by regulating microRNA biogenesis and interacting with integrins and growth factors. The Hippo pathway also influences breast cancer and interacts with p63 isoforms, affecting cell polarity and stem cell properties. Understanding these interactions is vital for diagnosing and treating breast cancer effectively.

This antibody recognises the target epitope LSDPxW motif which is located within the C-terminal region of TAp63. This sequence is absent in Δ Np63 and the p63 paralog p73, thus this antibody is not predicted to react with either protein.

References: *Su X, Napoli M, Abbas HA, et al. Oncogene. 2017;36(17):2377-2393.*

Product Characteristics

| Characteristic | Information |
|---------------------|----------------|
| Host species | Mouse |
| Type | Monoclonal |
| Isotype | IgG2a |
| Clone name | TAp63-4.1 |
| Immunogen | TAp63 α |
| Species specificity | Mouse |
| Target Mw (kDa) | 77 |

Supplied at 1mg/mL in 1x PBS with 0.01% sodium azide. Suitable for short term (2 – 3 months) storage at 4°C. Aliquot for long storage at -20°C. Avoid multiple freeze-thawing.

Product Application

TAp63-4.1 has been tested to work for the following applications:

- Western Blotting (WB)
- Immunoprecipitation (IP)
- Immunohistochemistry (IHC)

Not tested for other applications.

Our recommended starting dilutions are:
 0.5 - 1 µg/mL for WB, 2.5 µg/test for IP and 1 - 5 µg/mL for IHC.

Technical support

If you are experiencing difficulties with using the reagent, please contact our team with relevant information at infoab@abasiabiolabs.com