

## BAP1 clone C-4

### Mouse Monoclonal Antibody

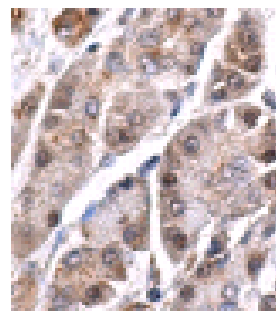
#### Instructions for Use

##### Specification:

Mutations within the BRCA1 gene, localized to chromosome 17q, are believed to account for approximately 45% of families with increased incidence of both early-onset breast cancer and ovarian cancer. The BRCA1 gene is expressed in numerous tissues, including breast and ovary, and encodes a predicted protein of 1,863 amino acids. This protein contains a RING domain near the N-terminus and appears to encode a tumor suppressor. BARD1 (BRCA1-associated RING domain protein 1) and BAP1 (BRCA1-associated protein 1) have both been shown to bind to the N-terminus of BRCA1 and are potential mediators of tumor suppression. BARD1 contains an N-terminal RING domain and three tandem ankyrin repeats. The C-terminus of BARD1 contains a region with sequence homology to BRCA1, termed the BRCT domain. BAP1 is a ubiquitin hydrolase and has been shown to enhance BRCA1-mediated cell growth suppression.

##### Availability:

| Catalog No. | Contents | Volume             |
|-------------|----------|--------------------|
| ILM3919-C01 | BAP1     | 0,1 ml concentrate |
| ILM3919-C05 | BAP1     | 0,5 ml concentrate |
| ILM3919-C1  | BAP1     | 1,0 ml concentrate |



**Intended use:** For Research use only

**Reactivity:** Human

**Clone:** C-4

**Species of origin:** Mouse

**Isotype:** IgG<sub>1</sub>

**Control Tissue:** Pancreas, breast carcinoma, ovarian carcinoma

**Staining:** Nuclear and cytoplasmic

**Immunogen:** Amino acids 430-729 of BAP1 of human origin

**Presentation:** Antibody in PBS with < 0.1% sodium azide and 0.1% gelatin

##### Application and suggested dilutions:

Pre-treatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, or in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:50-1:100)
- Western blotting (dilution 1:100-1:500)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

**Reference:**

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- 4) Nishikawa, H., et al. 2009, Cancer Res. 69: 111-119.
- 5) Bott, M., et al. 2011, Nat. Genet. 43: 668-672.
- 6) Wiesner, T., et al. 2012, Am. J. Surg. Pathol. 36: 818-830.
- 7) Carbone, M., et al. 2012, J. Transl. Med. 10: 179.
- 8) Yoshikawa, Y., et al. 2012, Cancer Sci. 103: 868-874.
- 9) Gammon, B., et al. 2013, J. Cutan. Pathol. 40: 538-542.
- 10) Kerl, K., et al. 2013, Am. J. Dermatopathol. 35: 151-158.
- 11) Popova T., et al. 2013, Am. J. Hum. Genet. 92: 974-980.