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DATA SHEET

Mouse Anti-BAP1 (BRCA1-associated Protein 1) [C4]: MC0136, MC0136RTU7

Intended Use: For Research Use Only

Description: 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.

Specifications

Clone:	C4
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Human BAP1 protein fragment around aa 430-729
Localization:	Nucleus, cytoplasm
Formulation:	Antibody n PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB

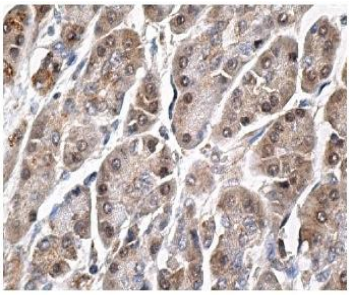
Package:

Description	Catalog No.	Size
BAP1 (BRCA1-associated Protein 1) Concentrated	MC0136	1 ml
BAP1 (BRCA1-associated Protein 1) Prediluted	MC0136RTU7	7 ml

IHC Procedure:

Positive Control Tissue:	Breast carcinoma
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas stained with anti-BAP1 using DAB

References

1. The BAP1/ASXL2 Histone H2A Deubiquitinase Complex Regulates Cell Proliferation and Is Disrupted in Cancer. Daou, S. et al. The Journal of biological chemistry. 290: 28643-63, 2015.
2. The ubiquitin carboxyl hydrolase BAP1 forms a ternary complex with YY1 and HCF-1 and is a critical regulator of gene expression. Yu, H. et al. Molecular and cellular biology. 30: 5071-85, 2010.
3. BRCA1-associated protein 1 interferes with BRCA1/BARD1 RING heterodimer activity. Nishikawa, H. et al. Cancer Res. 69: 111-119, 2009.

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