

GLK-2 Monoclonal Antibody to BRCA1

Biomaterial – Antibody

Biomaterial Description

GLK-2 is a mouse monoclonal antibody developed to detect the human BRCA1 protein, specifically recognizing amino acids 1839–1863 at the C-terminal region. This antibody has been used in research settings to study BRCA1 expression, localization, and mutation-specific behavior in various cancer models, particularly breast and ovarian tumors. GLK-2 is suitable for use in multiple immunoassays and has demonstrated selective reactivity in tumors with mutations in exon 11 of BRCA1, while showing no staining in tumors with mutations outside this region. These properties make it a valuable tool for investigating BRCA1-related pathways and mutation-specific expression profiles.

Applications

- Western blot (WB) for BRCA1 protein detection
- Immunoprecipitation (IP) of BRCA1-associated complexes
- Immunofluorescence (IF) for subcellular localization studies
- Immunohistochemistry (IHC-P) on paraffin-embedded tissue sections
- Mutation-specific BRCA1 expression analysis in cancer research

Advantages

- High specificity for the BRCA1 C-terminal epitope (aa 1839–1863)
- Validated across multiple assay platforms, including WB, IP, IF, and IHC-P
- Selective reactivity in exon 11-mutated BRCA1 tumors
- Cross-species reactivity with several mammalian models

Distributor Information

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Category

Research Tools/Biological
Materials/Antibody

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