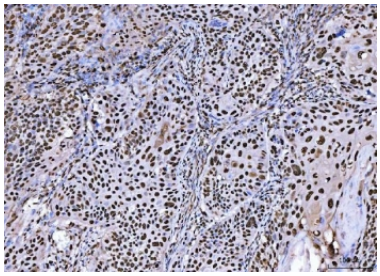
BRCA1 Antibody (R31448)

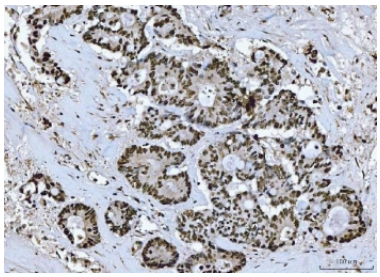
Catalog No.	Formulation	Size
R31448	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

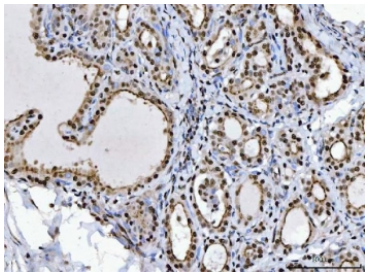
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
Gene ID	672
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This BRCA1 antibody is available for research use only.



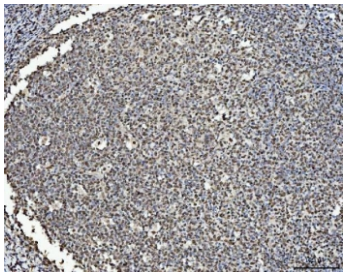
BRCA1 Antibody Laryngeal Squamous Cell Carcinoma IHC. Immunohistochemistry staining of FFPE human laryngeal squamous cell carcinoma tissue with BRCA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



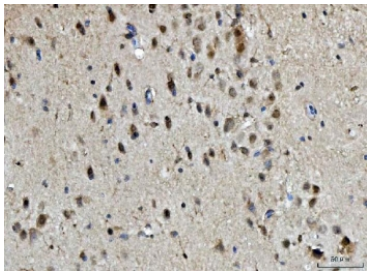
BRCA1 Antibody Colorectal Adenocarcinoma IHC. Immunohistochemistry staining of FFPE human colorectal adenocarcinoma tissue with BRCA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



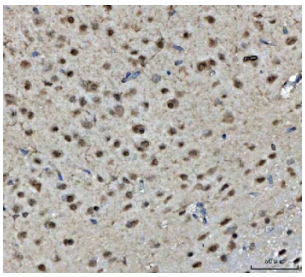
BRCA1 Antibody Thyroid Cancer IHC. Immunohistochemistry staining of FFPE human thyroid cancer tissue with BRCA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



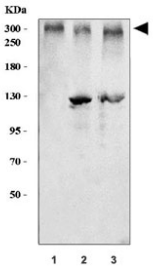
BRCA1 Antibody Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with BRCA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



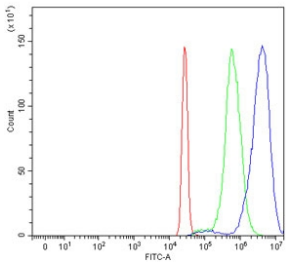
BRCA1 Antibody Mouse Brain IHC. Immunohistochemistry staining of FFPE mouse brain tissue with BRCA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



BRCA1 Antibody Rat Brain IHC. Immunohistochemistry staining of FFPE rat brain tissue with BRCA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



BRCA1 Antibody WB. Western blot testing of human 1) HeLa, 2) T-47D and 3) Raji cell lysate with BRCA1 antibody. Predicted molecular weight ~207 kDa.



BRCA1 Antibody FACS. Flow cytometry testing of human HepG2 cells with BRCA1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= BRCA1 antibody.

Description

BRCA1 Antibody specifically detects Breast cancer type 1 susceptibility protein. The BRCA1 gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). BRCA1 product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complexes. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. In addition to it, it may normally serve as a negative regulator of mammary epithelial cell growth and that this function is compromised in breast cancer either by direct mutation or by alterations in gene expression.

Additional studies involving homologous recombination, hereditary cancer susceptibility, and genomic stability pathways may benefit from our BRCA1 antibody page featuring clone BRCA1/1398 with HuProt protein microarray specificity validation.

Application Notes

The stated application concentrations are suggested starting points. Titration of the BRCA1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1661-1863) was used as the immunogen for this BRCA1 antibody.

Storage

After reconstitution, the BRCA1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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