

Anti-BRCA2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse)
Molecular Weight:	Theoretical: 384 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: human breast carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-BRCA2/FANCB Polyclonal Antibody, Unconjugated (TMAB-00248) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Sample:

MCF-7 (Human) Cell Lysate at 30 µg

CAPAN1 (Human) Cell Lysate at 30 µg

Primary: Anti-BRCA2 (TMAB-00248) at 1/200 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 384 kDa

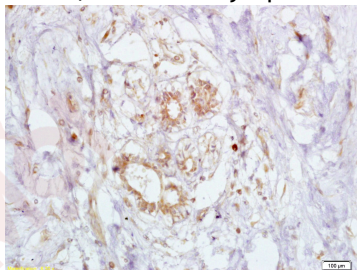
Observed band size: 384 kDa

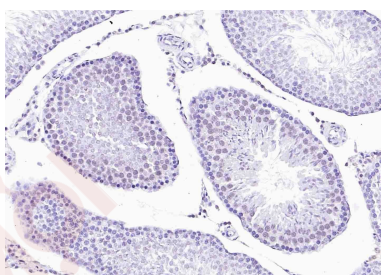
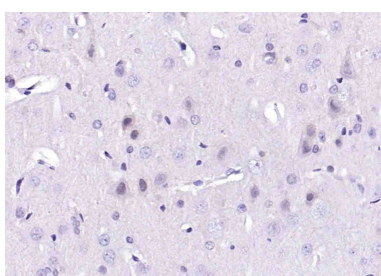
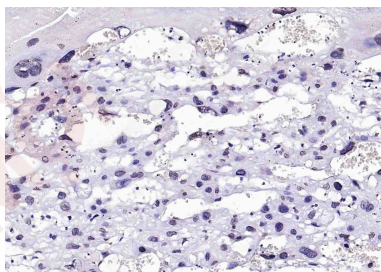
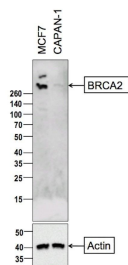
Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (Rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (BRCA2) Polyclonal Antibody, Unconjugated (TMAB-00248) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (BRCA2) Polyclonal Antibody, Unconjugated (TMAB-00248) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (BRCA2) Polyclonal Antibody, Unconjugated (TMAB-00248) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: ELISA,IF,IHC-Fr,IHC-P

Recommended ELISA=1:5000-10000; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human BRCA2

Antigen Species: Human

Gene ID: 675

Uniprot ID: P51587

Synonyms: BRCA2;FACD;XRCC11;GLM3;FANCD1;BRCA2 DNA repair associated;BRCC2;FAD;Breast cancer type 2 susceptibility protein;Fanconi anemia group D1 protein;FAD1;BRCA 2;BROVCA2;PNCA2;FANCD

Biology Area: Tumor suppressors,BRCT Domain Proteins,Homologous Recomb.,Tumor Suppressors, Transcription Factors

Research Background

Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The largest exon in both genes is exon 11, which harbors the most important and frequent mutations in breast cancer patients. The BRCA2 gene was found on chromosome 13q12.3 in human. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele. [provided by RefSeq, May 2020]

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