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[Marker Primary Antibody]

Rabbit Anti-BRMS1/PE-Cy7 Conjugated antibody

Catalog Number: SL8686R-PE-Cy7

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-BRMS1/PE-Cy7
Immunogen:	KLH conjugated synthetic peptide derived from human BRMS1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 ∑C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20∑C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ∑C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog,Pig,Horse)
Background:	background: Breast cancer metastasis-suppressor 1 (BRMS1) is 246 amino acid protein that acts as a mediator of metastasis suppression in several types of cancer including ovarian, lung, bladder, and murine mammary. BRMS1 mRNA is expressed in various tissues, including ovary, prostate, testis, and colon, but the protein is primarily detected in term placenta. BRMS1 suppresses metastasis without inhibiting tumorigenicity by modifying several metastasis-associated phenotypes. BRMS1 may participate in transcriptional regulation by binding to the mSin3/histone deacetylase complex. The expression of BRMS1 in certain cells increases connexin Cx43 expression and reduces connexin Cx32 expression. This produces a gap junction that increases intercellular communication, similar to those found in normal breast tissue. BRMS1 is stabilized by Hsp90 and may inhibit NF-xB activity. **Function:** Transcriptional repressor. Down-regulates transcription activation by NF-kappa-B by promoting the deacetylation of RELA at 'Lys-310'. Promotes HDAC1 binding to promoter regions. Down-regulates expression of

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	anti-apoptotic genes that are controlled by NF-kappa-B. Promotes apoptosis in cells that have inadequate adherence to a substrate, a process called anoikis, and may thereby inhibit metastasis. May be a mediator of metastasis suppression in breast carcinoma. **Subunit:** Belongs to the BRMS1 family. **Subcellular Location:** Nucleus. Cytoplasm. Predominantly nuclear. **Tissue Specificity:** Expression levels are higher in term placentas than in early placentas. Low levels of expression observed in normal pregnancies and in molar pregnancies. **Similarity:** Belongs to the BRMS1 family. **Database links:** **Entrez Gene:** 25855 Human Omim: 606259 Human **SwissProt:** Q9HCU9 Human **Unigene:** 100426 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.