BRD7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BRD7, Polyclonal Antibody
Full Product Name	BRD7, NT (BRD7, BP75, CELTIX1, Bromodomain-containing protein 7, 75kD bromodomain protein, Protein CELTIX-1) (MaxLight 650)
Product Gene Name	anti-BRD7 antibody
Product Synonym Names	BRD7; BP75; CELTIX1; Bromodomain-containing protein 7; 75kD bromodomain protein; Protein CELTIX-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	74,139 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (50352929..50402845, complement). Location: 16q12
3D Structure	ModBase 3D Structure for Q9NPI1
Immunogen	BRD7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 76-107 amino acids from the N-terminal region of human BRD7.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-BRD7 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-BRD7 antibody	Western Blot (WB), FLISA
Application Notes for anti-BRD7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BRD7 antibody	This gene encodes a protein which is a member of the bromodomain-containing protein family. The product of this gene has been identified as a component of one form of the SWI/SNF chromatin remodeling complex, and as a protein which interacts with p53 and is required for p53-dependent oncogene-induced senescence which prevents tumor growth. Pseudogenes have been described on chromosomes 2, 3, 6, 13 and 14. Alternative splicing results in multiple transcript variants.
Product References and Citations for anti-BRD7 antibody	Burrows, A.E., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):14280-14285(2010). Drost, J., et al. Nat. Cell Biol. 12(4):380-389(2010). Kikuchi, M., et al. Biochim. Biophys. Acta 1793(12):1828-1836(2009). Kaeser, M.D., et al. J. Biol. Chem. 283(47):32254-32263(2008). Liu, H., et al. BMC Mol. Biol. 9, 111 (2008).

Other Notes	Small volumes of anti-BRD7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BRD7 purchase	MBS6278854 is an antibody targeting BRD7. Also known as BRD7, NT (BRD7, BP75, CELTIX1, Bromodomain-containing protein 7, 75kD bromodomain protein, Protein CELTIX-1) (MaxLight 650). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRD7. It may not necessarily be applicable to this product.

NCBI GI #	291219913
NCBI GeneID	29117
NCBI Accession #	NP_001167455.1
NCBI Related Accession #	NP_037395.2
UniProt Primary Accession #	Q9NPI1
UniProt Secondary Accession #	Q4VC09; Q8N2L9; Q96KA4; Q9BV48; Q9UH59
UniProt Related Accession #	Q9NPI1
GenBank Nucleotide #	NM_001173984.2
NCBI Official Full Name	bromodomain-containing protein 7 isoform 1
NCBI Official Synonym Full Names	bromodomain containing 7
NCBI Official Symbol	BRD7
NCBI Official Synonym Symbols	BP75; NAG4; CELTIX1
UniProt Protein Name	Bromodomain-containing protein 7
UniProt Synonym Protein Names	75 kDa bromodomain protein; Protein CELTIX-1
Protein Family	Bromodomain-containing protein
UniProt Gene Name	BRD7
UniProt Synonym Gene Names	BP75; CELTIX1
UniProt Entry Name	BRD7_HUMAN
NCBI Protein Information	bromodomain-containing protein 7; protein CELTIX-1; 75 kDa bromodomain protein

UniProt Comments for BRD7	BRD7: a bromodomain protein that binds dishevelled-1 (DVL1) and enhances Wnt signaling by inhibiting GSK3B. Interacts with DVL1, PTPN13, IRF2 and HNRPUL1. Associates with histones and E1B-AP5. Binds acetylated histone peptides, most notably H3 peptide acetylated at Lys14. Associates with histones and E1B-AP5. Its bromodomain is found in many chromatin-associated proteins and most known histone acetyltransferases. Inhibits G1-S progression by transcriptional regulation of molecules in the ras and Rb pathways. Plays an important role in transcriptional activation and chromatin remodeling. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription regulation; Tumor suppressor; Cell cycle regulation; Histone-binding Chromosomal Location of Human Ortholog: 16q12 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; histone binding; p53 binding; transcription coactivator activity; transcription factor binding; transcription corepressor activity Biological Process: regulation of transcription from RNA polymerase II promoter; negative regulation of cell proliferation; Wnt receptor signaling pathway; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; positive regulation of histone acetylation; negative regulation of transcription, DNA-dependent; cell cycle
Research Articles on BRD7	**1.** No evidence for breast cancer susceptibility is associated with variants of BRD7.
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