BRD7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Brd7, Polyclonal Antibody
Full Product Name	Brd7 (Bromodomain-Containing Protein 7, 75kD bromodomain Protein, Brd7, Bp75) (AP)
Product Gene Name	anti-Brd7 antibody
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 Alkaline Phosphatase.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes mouse Brd7. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	74,000 Da
3D Structure	ModBase 3D Structure for O88665
Immunogen	KLH conjugated synthetic peptide corresponding to aa387-418 at the Central region of human MOUSE Brd7.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-Brd7 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-Brd7 antibody	Western Blot (WB)
Application Notes for anti-Brd7 antibody	WB: 1:2000 Applications are based on unconjugated antibody.
Related Product Information for anti-Brd7 antibody	MBS6454501 is an antibody targeting Brd7. Also known as Brd7 (Bromodomain-Containing Protein 7, 75kD bromodomain Protein, Brd7, Bp75) (AP). Reactive in Mouse. Host: Rabbit.
Product References and Citations for anti-Brd7 antibody	Cuppen E., et al. FEBS Lett. 459:291-298(1999). Carninci P., et al. Science 309:1559-1563(2005). Kim S., et al. Cancer Res. 63:4792-4795(2003). Kaeser M.D., et al. J. Biol. Chem. 283:32254-32263(2008). Kikuchi M., et al. Biochim. Biophys. Acta 1793:1828-1836(2009).
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Brd7. It may not necessarily be applicable to this product.

NCBI GI #	6755234

NCBI GeneID	26992
NCBI Accession #	NP_036177.1
UniProt Primary Accession #	O88665
UniProt Secondary Accession #	Q3UQ56; Q3UU06; Q9CT78
UniProt Related Accession #	O88665
GenBank Nucleotide #	NM_012047.2
NCBI Official Full Name	bromodomain-containing protein 7
NCBI Official Synonym Full Names	bromodomain containing 7
NCBI Official Symbol	Brd7
NCBI Official Synonym Symbols	BP75; CELTIX1; Ptpn13ip
UniProt Protein Name	Bromodomain-containing protein 7
UniProt Synonym Protein Names	75 kDa bromodomain protein
Protein Family	Bromodomain-containing protein
UniProt Gene Name	Brd7
UniProt Synonym Gene Names	Bp75
UniProt Entry Name	BRD7_MOUSE
NCBI Protein Information	bromodomain-containing protein 7
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: Tumor suppressor; Transcription regulation; Histone-binding; Cell cycle regulation Cellular Component: nucleus Molecular Function: protein binding; histone binding; p53 binding; transcription coactivator activity; transcription corepressor activity; transcription factor binding Biological Process: regulation of transcription from RNA polymerase II promoter; negative regulation of cell proliferation; Wnt receptor signaling pathway; regulation of transcription, DNA-dependent; 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.** BRD7 interacts with the regulatory subunits of phosphatidylinositol 3-kinase (PI3K) and increases the nuclear translocation of both p85alpha and p85beta and the spliced form of XBP1 (XBP1s).
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