BRD2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	BRD2, Monoclonal Antibody
Full Product Name	BRD2 (Bromodomain-containing Protein 2, Really Interesting New Gene 3 Protein, O27.1.1, KIAA9001, RING3) (MaxLight 550)
Product Gene Name	anti-BRD2 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3D10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human BRD2.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	52.8kDa (478aa)
OMIM	601540
3D Structure	ModBase 3D Structure for P25440
Immunogen	Partial recombinant corresponding to aa167-256, from human BRD2 (NP_005095) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QTLEKIFLQKVASMPQEEQELVVTIPKNSHKKGAKLAALQGSVTSAHQVPAVSSVSHTALYTPPPEIPTTVLNIPHPSVISSPLLKSLHS
Conjugate	MaxLight550
Product Categories/Family for anti-BRD2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-BRD2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-BRD2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BRD2 antibody	BRD2 is a mitogen-activated kinase which localizes to the nucleus. The gene maps to the major histocompatability complex (MHC) class II region on chromosome 6p21.3 but sequence comparison suggests that the protein is not involved in the immune response. Homology to the Drosophila gene female sterile homeotic suggests that this human protein may be part of a signal transduction pathway involved in growth control.
Other Notes	Small volumes of anti-BRD2 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 BRD2 purchase	MBS6210459 is an antibody targeting BRD2. Also known as BRD2 (Bromodomain-containing Protein 2, Really Interesting New Gene 3 Protein, O27.1.1, KIAA9001, RING3) (MaxLight 550). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRD2. It may not necessarily be applicable to this product.

NCBI GI #	4826806
NCBI GeneID	6046
NCBI Accession #	NP_005095
UniProt Primary Accession #	P25440
UniProt Secondary Accession #	O00699; O00700; Q15310; Q5STC9; Q63HQ9; Q658Y7; Q6P3U2; Q969U4; A2AAU0; B0S7P0; B1AZT1
UniProt Related Accession #	P25440
GenBank Nucleotide #	NM_005104
NCBI Official Full Name	bromodomain-containing protein 2 isoform 1
NCBI Official Synonym Full Names	bromodomain containing 2
NCBI Official Symbol	BRD2
NCBI Official Synonym Symbols	FSH; NAT; RNF3; FSRG1; RING3; D6S113E; O27.1.1; BRD2-IT1
UniProt Protein Name	Bromodomain-containing protein 2
UniProt Synonym Protein Names	O27.1.1; Really interesting new gene 3 protein
Protein Family	Bromodomain-containing protein
UniProt Gene Name	BRD2
UniProt Synonym Gene Names	KIAA9001; RING3
UniProt Entry Name	BRD2_HUMAN
NCBI Protein Information	bromodomain-containing protein 2
NCBI Summary for BRD2	This gene encodes a transcriptional regulator that belongs to the BET (bromodomains and extra terminal domain) family of proteins. This protein associates with transcription complexes and with acetylated chromatin during mitosis, and it selectively binds to the acetylated lysine-12 residue of histone H4 via its two bromodomains. The gene maps to the major histocompatability complex (MHC) class II region on chromosome 6p21.3, but sequence comparison suggests that the protein is not involved in the immune response. This gene has been implicated in juvenile myoclonic epilepsy, a common form of epilepsy that becomes apparent in adolescence. Multiple alternatively spliced variants have been described for this gene. [provided by RefSeq, Dec 2010]
Research Articles on BRD2	**1.** The bromodomain and extraterminal domain (BET) family consists of BRDT, BRD2, BRD3, and BRD4, each containing 2 bromodomains located N-terminal to extraterminal domain, which is located near C-terminus. Data suggest that 10 distinct acylations participate in binding of BET family proteins to histone 4 (oligopeptide fragments used here); C-terminal bromodomains do not cooperatively bind multiple acylation sites.
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