antibodies

Datasheet for ABIN2669643 BRD2 Protein (AA 344-455) (His tag,DYKDDDDK Tag)

2 Images



Overview

Quantity:	100 µg
Target:	BRD2
Protein Characteristics:	AA 344-455
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRD2 protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics:	The peptide corresponding to amino acids 344 - 455 that contains the bromodomain
	sequences of BRD2 (accession number NM_005104.3) was expressed in E. coli and contains
	an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 19.4 kDa.
	It shows binding specificity for acetylated H4K5/K8, H4K12, H4K8/K12, H4K12/K16,
	H4K12/K16/K20 and H4K5/K8/K12/K16.

Target Details

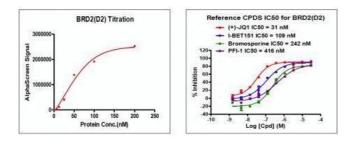
Target:	BRD2
Alternative Name:	BRD2 (BRD2 Products)
Background:	Bromodomain-containing protein 2 (BRD2), also known as RING3, belongs to the BET subclass of proteins, which are characterized by two N-terminal bromodomains and one ET (Extra

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	Terminal) domain. BRDs associate with chromatin through their bromodomains that recognize
	acetylated histone lysine residues. Bromodomains function as 'readers' of these epigenetic
	histone marks and regulate chromatin structure and gene expression by linking associated
	proteins to the acetylated nucleosomal targets. The ET domain functions as a protein binding
	motif and exerts atypical serine-kinase activity. The BET family consists of at least four
	members in mouse and human, BRD2 (also referred to as FSRG1, RING3), BRD3 (FSRG2,
	ORFX), BRD4 (FSRG4, MCAP/HUNK1), and BRDT (FSRG3, BRD6). BRD proteins are related to
	the female sterile homeotic protein gene in Drosophila, a gene required maternally for proper
	expression of other homeotic genes, such as Ubx, which is involved in pattern formation. BRD2
	causes elevated protein kinase activity in leukemias. Transgenic mice overexpressing BRD2 in
	the lymphoid system develop diffuse large-cell lymphoma. BRD2 has been shown to interact
	with E2F1 and with histone H4 acetylated at Lys12 via its two bromodomains. BRD2 may play a
	role in spermatogenesis or folliculogenesis. Genetic evidence links the BRD2 gene to both
	juvenile myoclonic epilepsy and photoparoxysomal responses.
Molecular Weight:	19.4 kDa
Pathways:	Chromatin Binding, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of
	SARS-CoV-2 Infection
Application Details	
Application Notes:	Recombinant BRD2 (344-455) is suitable for use in binding assays, inhibitor screening, and
	selectivity profiling.
Restrictions:	For Research Use only
Handling	
-	
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-80 °C

Storage Comment:Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to
prevent degradation.

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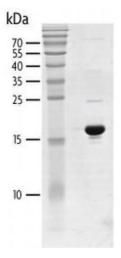


Screening Assay

Image 1. Recombinant BRD2 (344-455) activity using AlphaScreen. BRD2 (344-455) titration and inhibition were assessed using an AlphaScreen® assay. Titration curves were generated to show signal response in the presence of modified peptide substrate at increasing protein concentrations. An IC50 dose response assessment of reference compounds JQ1, I-BET151, Bromosporine and PFI-1 is also shown. This data was generated and kindly provided courtesy of ChemPartner.



Image 2. Recombinant BRD2 (344-455) protein gel. BRD2 (344-455) protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.



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