

Datasheet for ABIN2669697

SMARCA2 Protein (AA 1367-1511) (His tag,DYKDDDDK Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	SMARCA2
Protein Characteristics:	AA 1367-1511
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCA2 protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics:	The peptide corresponding to amino acids 1367-1511 that contains the bromodomain sequences of SMARCA2 / BRM (accession number NP_003061.3) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 22.96 kDa. It shows binding specificity for acetylated H3K9, H3K14, H3K9/14, H4K8, H4K12, H4K16 and H4K5/8/12/16.
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Target Details

Target:	SMARCA2
Alternative Name:	SMARCA2 / BRM (SMARCA2 Products)
Background:	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), also known as BRM, is a member of the SWI/SNF family of proteins and

Target Details

is similar to the Brahma protein of *Drosophila*. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. SMARCA2 contains bromodomains for interaction with other proteins. The bromodomain functions as a 'reader' of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. SMARCA2 is involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR). SMARCA1 belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). SMARCA2 plays a pivotal role in the regulation of the switch in subunit composition of the npBAF and nBAF complexes as cells transition from proliferating neural stem/progenitor cells to post-mitotic neurons during neural development.

Molecular Weight:	22.96 kDa
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Application Details

Application Notes:	Recombinant SMARCA2 / BRM (1367-1511) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
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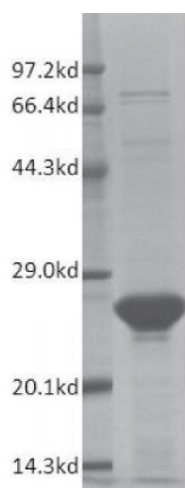
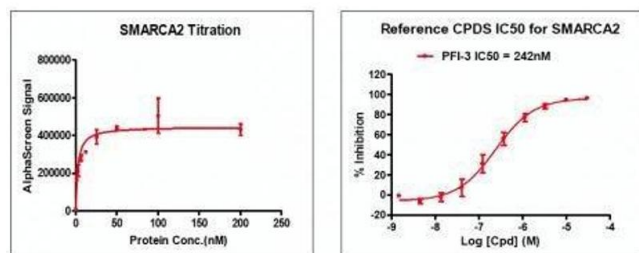
Restrictions:	For Research Use only
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Handling

Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
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Storage:	-80 °C
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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 SMARCA2 / BRM (1367-1511) activity using AlphaScreen. SMARCA2 / BRM (1367-1511) 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 compound PFI-3 is also shown. This data was generated and kindly provided courtesy of ChemPartner.

Western Blotting

Image 2. Recombinant SMARCA2 / BRM (1367-1511) protein gel. SMARCA2 / BRM (1367-1511) protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.