

Datasheet for ABIN7317658 **SMYD2A Protein (His tag)**



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Overview

Quantity:	50 µg
Target:	SMYD2A
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMYD2A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SMYD2/KMT3C Protein (His Tag)
Sequence:	Met 1-His 433
Characteristics:	A DNA sequence encoding the full length of human SMYD2 (NP_064582.2) (Met 1-His 433) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SMYD2A
Alternative Name:	SMYD2/KMT3C (SMYD2A Products)
Background:	Background: SET and MYND domain-containing protein 2, also known as HSKM-B, SMYD2, and KMT3C, is a member of the SMYD protein family. It contains one MYND-type zinc finger and one SET domain. Not much is known about SMYD2. However, the interest in better

Target Details

understanding the roles of SMYD2 has grown because of reports indicating that SMYD2 methylates p53 and histone H3. In *Xenopus*, SMYD1 and SMYD2 were expressed in various muscle tissues and related to muscle cells differentiation. SMYD2 mRNA is most highly expressed in heart and brain tissue. Over-expressed SMYD2 localizes to the cytoplasm and the nucleus in 293T cells. SMYD2 appears to restrain cell proliferation, likely through direct modulation of chromatin structure. Patients with SMYD2-overexpressing tumors had a worse overall rate of survival than those with non-expressing tumors, and SMYD2 positivity was independently associated with a worse outcome in the multivariate analysis. SMYD2 plays an important role in tumor cell proliferation through its activation/overexpression and regards as a prognosticator and potential therapeutic target in esophageal squamous cell carcinoma (ESCC).

Synonym: HSKM-B,KMT3C,ZMYND14

Molecular Weight: 52 kDa

NCBI Accession: [NP_064582](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 10 % glycerol, pH 8.0

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.