ARG63243
anti-SETMAR antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes SETMAR
Tested Reactivity	Hu
Predict Reactivity	Cow
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	SETMAR
Species	Human
Immunogen	RWQKCVDCNGSYFD
Conjugation	Un-conjugated
Alternate Names	HsMar1; SET domain and mariner transposase fusion protein; EC 3.1.-.-; EC 2.1.1.43; Mar1; METNASE; Histone-lysine N-methyltransferase SETMAR; Metnase

Application Instructions

Application table

Application	Dilution
WB	1 - 3 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

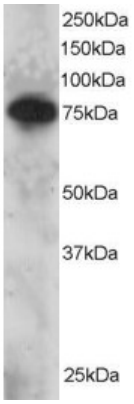
Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 6419 Human Swiss-port # Q53H47 Human
Background	This gene encodes a fusion protein that contains an N-terminal histone-lysine N-methyltransferase domain and a C-terminal mariner transposase domain. The encoded protein binds DNA and functions in DNA repair activities including non-homologous end joining and double strand break repair. The SET domain portion of this protein specifically methylates histone H3 lysines 4 and 36. This gene exists as a fusion gene only in anthropoid primates, other organisms lack mariner transposase domain. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]
Research Area	Gene Regulation antibody
Calculated Mw	78 kDa
PTM	Methylated. Methylation regulates activity in DNA decatenation. Phosphorylated at Ser-508 by CHEK1 and dephosphorylated by protein phosphatase 2A/PP2A. Phosphorylation at Ser-508 is enhanced by DNA damage and promotes recruitment to damaged DNA. It stimulates DNA repair and impairs replication fork restart.

Images



ARG63243 anti-SETMAR antibody WB image

Western Blot: Daudi lysate (RIPA buffer, 30µg total protein per lane) stained with ARG63243 anti-SETMAR antibody at 2 µg/ml dilution.