WBSCR22 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WBSCR22, Polyclonal Antibody
Full Product Name	WBSCR22
Product Gene Name	anti-WBSCR22 antibody
Product Synonym Names	BUD23; WBSCR22; HASJ4442; HUSSY-3; MERM1; PP3381; WBMT
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	32kDa
OMIM	194050
3D Structure	ModBase 3D Structure for O43709
Immunogen	Recombinant protein of human WBSCR22
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-WBSCR22 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-WBSCR22 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:100
Related Product Information for anti-WBSCR22 antibody	This gene encodes a protein containing a nuclear localization signal and an S-adenosyl-L-methionine binding motif typical of methyltransferases, suggesting that the encoded protein may act on DNA methylation. This gene is deleted in Williams syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at 7q11.23. Alternatively spliced transcript variants have been found.
Other Notes	Small volumes of anti-WBSCR22 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 WBSCR22 purchase	MBS8536325 is an antibody targeting WBSCR22. Reactive in Human, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WBSCR22. It may not necessarily be applicable to this product.

NCBI GI #	321400149
NCBI GeneID	114049
NCBI Accession #	NP_001189489.1

UniProt Primary Accession #	O43709
UniProt Secondary Accession #	Q96P12; Q9BQ58; Q9HBP9; A8K501; C9K060
UniProt Related Accession #	O43709
GenBank Nucleotide #	NM_001202560.2
NCBI Official Full Name	probable 18S rRNA (guanine-N(7))-methyltransferase isoform 1
NCBI Official Synonym Full Names	BUD23, rRNA methyltransferase and ribosome maturation factor
NCBI Official Symbol	BUD23
NCBI Official Synonym Symbols	WBMT; MERM1; PP3381; HUSSY-3; WBSCR22; HASJ4442
UniProt Protein Name	Probable 18S rRNA (guanine-N(7))-methyltransferase
UniProt Synonym Protein Names	Bud site selection protein 23 homolog; Metastasis-related methyltransferase 1; Williams-Beuren syndrome chromosomal region 22 protein; rRNA methyltransferase and ribosome maturation factor
Protein Family	Probable 18S rRNA
UniProt Gene Name	BUD23
NCBI Protein Information	probable 18S rRNA (guanine-N(7))-methyltransferase
UniProt Comments for WBSCR22	S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the N7 position of a guanine in 18S rRNA (PubMed:25851604). Requires the methyltransferase adapter protein TRM112 for full rRNA methyltransferase activity (PubMed:25851604). Involved in the pre-rRNA processing steps leading to small-subunit rRNA production independently of its RNA-modifying catalytic activity (PubMed:25851604). Important for biogenesis end export of the 40S ribosomal subunit independent on its methyltransferase activity (PubMed:24086612). Locus-specific steroid receptor coactivator. Potentiates transactivation by glucocorticoid (NR3C1), mineralocorticoid (NR3C2), androgen (AR) and progesterone (PGR) receptors (PubMed:24488492). Required for the maintenance of open chromatin at the TSC22D3/GILZ locus to facilitate NR3C1 loading on the response elements (PubMed:24488492). Required for maintenance of dimethylation on histone H3 'Lys-79' (H3K79me2), although direct histone methyltransferase activity is not observed in vitro (PubMed:24488492).
Research Articles on WBSCR22	**1.** The localization of the TRMT112 protein is determined by WBSCR22, and the WBSCR22-TRMT112 complex is localized in the cell nucleus.
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