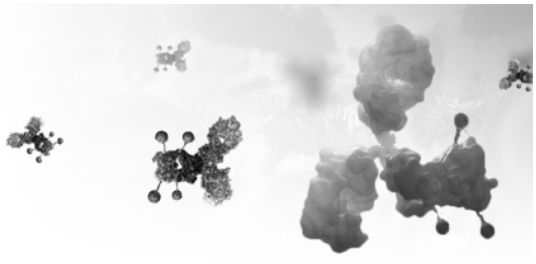

CTCF peptide (DAG-P0386)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene is a member of the BORIS + CTCF gene family and encodes a transcriptional regulator protein with 11 highly conserved zinc finger (ZF) domains. This nuclear protein is able to use different combinations of the ZF domains to bind different DNA target sequences and proteins. Depending upon the context of the site, the protein can bind a histone acetyltransferase (HAT)-containing complex and function as a transcriptional activator or bind a histone deacetylase (HDAC)-containing complex and function as a transcriptional repressor. If the protein is bound to a transcriptional insulator element, it can block communication between enhancers and upstream promoters, thereby regulating imprinted expression. Mutations in this gene have been associated with invasive breast cancers, prostate cancers, and Wilms tumors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]
Conjugate	Unconjugated
Format	Liquid
Buffer	Preservative: 0.09% Sodium azideConstituents: Tris buffered saline, 0.1% BSA
Preservative	0.09% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: 0.09% Sodium azideConstituents: Tris buffered saline, 0.1% BSA

GENE INFORMATION

Gene Name	CTCF CCCTC-binding factor (zinc finger protein) [Homo sapiens (human)]
Official Symbol	CTCF
Synonyms	CTCF; CCCTC-binding factor (zinc finger protein); MRD21; transcriptional repressor CTCF; CTCFL paralog; 11-zinc finger protein; 11 zinc finger transcriptional repressor;

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Entrez Gene ID	10664
mRNA Refseq	NM_001191022.1
Protein Refseq	NP_001177951.1
UniProt ID	P49711
Chromosome Location	16q21-q22.3
Pathway	SIDS Susceptibility Pathways, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	chromatin insulator sequence binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; transcription regulatory region DNA binding; zinc ion binding;

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