



Anti-MAEL polyclonal antibody (DPAB-TJ086)

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

PRODUCT INFORMATION

Antigen Description	Mael is a 434 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one HMG box DNA-binding domain. Expressed specifically in testicular tissue, Mael interacts with Ini1, mSin3B and VASA and plays an essential role in spermatogenesis, specifically by repressing and, ultimately, preventing the mobilization of transposable elements (a process that is crucial for germline integrity). Multiple isoforms of Mael exist due to alternative splicing events. The gene encoding Mael maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.
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Isotype	IgG
Source/Host	Goat
Species Reactivity	N/A
Purification	Affinity purified by a peptide mapping within an internal region of Mael of mouse origin.
Conjugate	Unconjugated
Applications	WB, IP, IF, ELISA
Molecular Weight	49 kDa
Concentration	0.2mg/ml
Size	200 µg
Buffer	PBS with < 0.1% sodium azide and 0.1% gelatin

Preservative	< 0.1% Sodium Azide
Storage	Store at 4°C, DO NOT FREEZE. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

GENE INFORMATION

Gene Name	MAEL maelstrom spermatogenic transposon silencer [Homo sapiens (human)]
Official Symbol	MAEL
Synonyms	MAEL; maelstrom spermatogenic transposon silencer; CT128; SPATA35; protein maelstrom homolog; maelstrom homolog; cancer/testis antigen 128; spermatogenesis associated 35
Entrez Gene ID	84944
Protein Refseq	NP_001273306.1
UniProt ID	Q96JY0
Chromosome Location	1q24.1
Function	DNA binding