10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MMEL1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1937a

Product Information

Application	WB, IHC, FC, E
Primary Accession	Q495T6
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2D2H5
Isotype	IgG1
Calculated MW	89367
Description	The protein encoded by this gene is a member of the neutral endopeptidase (NEP) or membrane metallo-endopeptidase (MME) family. Family members play important roles in pain perception, arterial pressure regulation, phosphate metabolism and homeostasis. This protein is a type II transmembrane protein and is thought to be expressed as a secreted protein. This gene is expressed mainly in testis with weak expression in the brain, kidney, and heart.
Immunogen	Purified recombinant fragment of human MMEL1 (AA: 1-107) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	79258
Other Names	Membrane metallo-endopeptidase-like 1, 3.4.24.11, Membrane metallo-endopeptidase-like 2, NEP2(m), Neprilysin II, NEPII, Neprilysin-2, NEP2, NL2, Membrane metallo-endopeptidase-like 1, soluble form, Neprilysin-2 secreted, NEP2(s), MMEL1, MELL1, MMEL2, NEP2
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MMEL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MMEL1
Synonyms	MELL1, MMEL2, NEP2
Function	Metalloprotease involved in sperm function, possibly by modulating the processes of fertilization and early embryonic development. Degrades a broad variety of small peptides with a preference for peptides shorter than 3 kDa containing neutral bulky aliphatic or aromatic amino acid residues. Shares the same substrate specificity with MME and cleaves peptides at the same amide bond (By similarity).
Cellular Location	Membrane; Single-pass type II membrane protein. Secreted. Note=A secreted form produced by proteolytic cleavage also exists.
Tissue Location	Predominantly expressed in testis. Weakly expressed in brain, kidney and heart.

Background

The protein encoded by this gene may interact with p53 and may be involved in tumorigenesis. The encoded protein also appears to be important for stem cell proliferation. This protein is found in both the nucleus and nucleolus. Three transcript variants encoding two different isoforms have been found for this gene. ; ;

References

1. Genes Immun. 2010 Dec;11(8):660-4.2. Ann Rheum Dis. 2011 Oct;70(10):1793-7.

Images

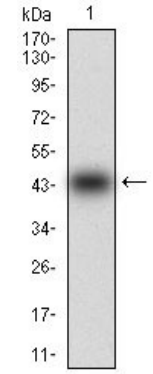


Figure 1: Western blot analysis using MMEL1 mAb against human MMEL1 (AA: 1-107) recombinant protein. (Expected MW is 37 kDa)

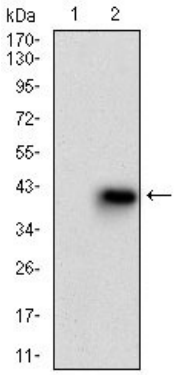
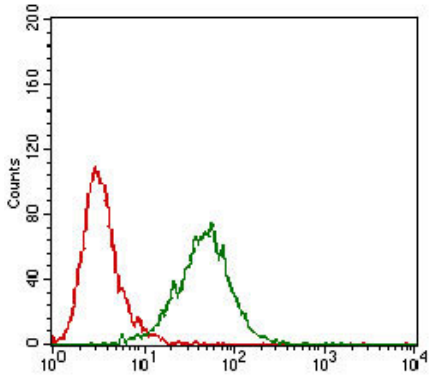


Figure 2: Western blot analysis using MMEL1 mAb against HEK293 (1) and MMEL1 (AA: 1-107)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Flow cytometric analysis of Hela cells using MMEL1 mouse mAb (green) and negative control (red).



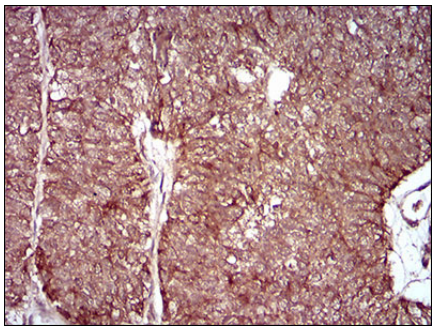


Figure 4: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using MMEL1 mouse mAb with DAB staining.

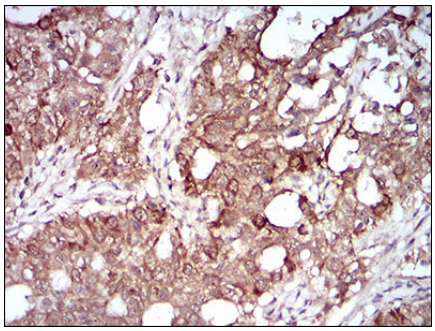


Figure 5: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using MMEL1 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.