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MAPE Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6720b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P78395
Reactivity	Human
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57890
Antigen Region	476-502

Additional Information

Gene ID	23532
Other Names	Melanoma antigen preferentially expressed in tumors, Opa-interacting protein 4, OIP-4, Preferentially expressed antigen of melanoma, PRAME, MAPE, OIP4
Target/Specificity	This MAPE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 476-502 amino acids from the C-terminal region of human MAPE.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MAPE Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRAME {ECO:0000303|PubMed:9047241, ECO:0000312|HGNC:HGNC:9336}
Function	Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex, which mediates ubiquitination of target

	proteins, leading to their degradation (PubMed:21822215, PubMed:26138980). The CRL2(PRAME) complex mediates ubiquitination and degradation of truncated MSRB1/SEPX1 selenoproteins produced by failed UGA/Sec decoding (PubMed:26138980). In the nucleus, the CRL2(PRAME) complex is recruited to epigenetically and transcriptionally active promoter regions bound by nuclear transcription factor Y (NFY) and probably plays a role in chromstin regulation (PubMed:21822215). Functions as a transcriptional repressor, inhibiting the signaling of retinoic acid through the retinoic acid receptors RARA, RARB and RARG: prevents retinoic acid-induced cell proliferation arrest, differentiation and apoptosis (PubMed:16179254).
Cellular Location	Nucleus. Chromosome. Cytoplasm Golgi apparatus. Cell membrane. Note=Associates with chromatin; specifically enriched at transcriptionally active promoters that are also bound by nuclear transcription factor Y (composed of NFYA, NFYB and NFYC) and at enhancers (PubMed:21822215). Recruited to the Golgi apparatus in response to interferon gamma (IFNG) treatment (PubMed:23460923).
Tissue Location	Expressed in testis. Detected in samples of kidney, brain and skin.

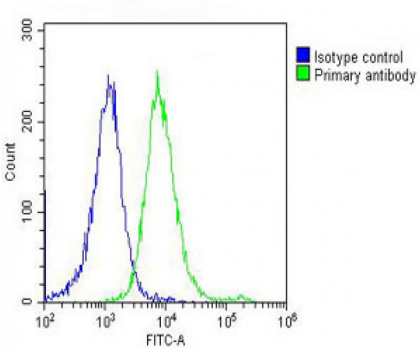
Background

MAPE is an antigen that is predominantly expressed in human melanomas and that is recognized by cytolytic T lymphocytes. It is not expressed in normal tissues, except testis. This expression pattern is similar to that of other CT antigens, such as MAGE, BAGE and GAGE. However, unlike these other CT antigens, its gene is also expressed in acute leukemias.

References

Rezvani,K., Blood 113 (10), 2245-2255 (2009)
Qin,Y., Leuk. Res. 33 (3), 384-390 (2009)
Neumann,E., Cancer Res. 58 (18), 4090-4095 (1998)

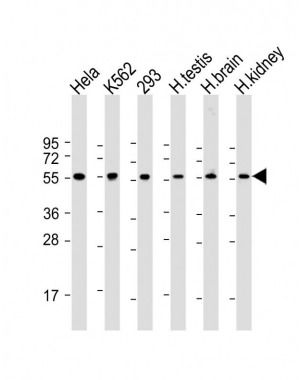
Images

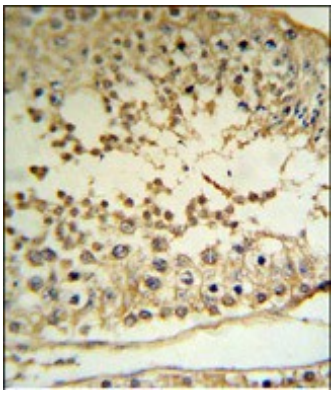


Overlay histogram showing Hela cells stained with AP6720b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP6720b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti-MAPE Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: K562 whole cell lysate Lane 3: 293 whole cell lysate Lane 4: human testis lysate Lane 5: human brain lysate Lane 6: human kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution

buffer: 5% NFDM/TBST.





MAPE Antibody (C-term) (RB18763) IHC analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MAPE Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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