

PRAME recombinant protein

Human PRAME

CATALOG # AAA14950	HOST E Coli	REACTIVITY Human	APPLICATIONS Western Blot, ELISA
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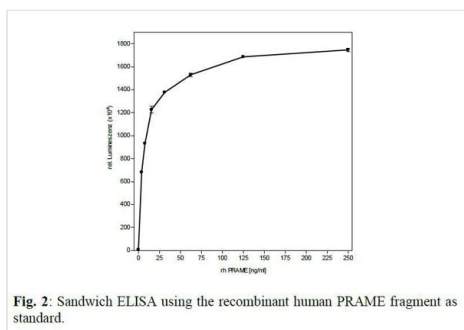
PRODUCT SYNONYMS

PRAME; Human PRAME; Recombinant Human PRAME (C-terminal fragment); Melanoma antigen preferentially expressed in tumors; Opa-interacting protein 4; MAPE; OIP4; PRAME recombinant protein

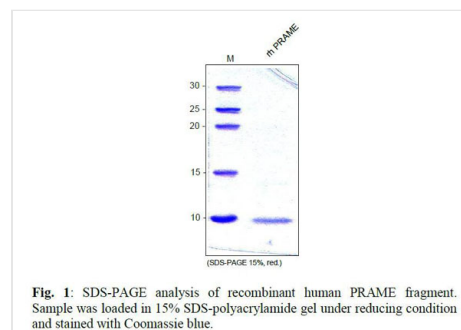
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	MNPLETLSIT NCRLSEGDVM HLSQSPSVSQ LSVLSLSGVM LTDVSPEPLQ ALLERASATL QDLVFDECGI TDDQLLALLP SLSHCSQLTT LSFYGNISIS
Sequence Length	100
Applicable Applications for PRAME recombinant protein	WB (Western Blot), ELISA
Application Notes	1. Positive control for Western blot analysis 2. Standard for ELISA.
Stabilizer	none
Buffer	10mM Tris, 25 mM NaP, pH 7.4
Length (aa)	100
Preparation and Storage	Stability: The lyophilized human PRAME, though stable at room temperature, is best stored desiccated below 0°C. Reconstituted human PRAME should be stored in working aliquots at -20°C. Reconstitution: Human PRAME should be reconstituted in water to a concentration of 0.1 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PRAME recombinant protein	PRAME/MAPE/OIP4 is a germinal tissue-specific gene that is also expressed at high levels in haematological malignancies and solid tumors. The physiological functions of PRAME in normal and tumor cells are unknown, although a role in the regulation of retinoic acid signaling has been proposed. Sequence homology and structural predictions suggest that PRAME is related to the Leucine-rich repeat (LRR) family of proteins, which have diverse functions. PRAME, or „preferentially expressed antigen in melanoma“, was originally identified as a gene encoding a HLA-A24 restricted antigenic peptide presented to autologous tumor-specific cytotoxic T lymphocytes derived from a patient with melanoma. PRAME is synonymous with MAPE (melanoma antigen preferentially expressed in tumors) and OIP4 (OPA-interacting protein 4), and its expression profile defines it as a cancer-testis antigen. Cancer-testis antigens (CTAs) are encoded by non-mutated genes expressed at high levels in germinal tissues and tumors, but which are absent from or detected at low levels in other tissues. PRAME may be somewhat different to other cancer-testis antigens in that it shows some expression in normal tissues such as ovary, adrenal, placenta and endometrium. The C-terminus of human PRAME (amino acids 453-509) was also identified to bind Neisseria gonorrhoeae opacity factors, in this case the OPA-P protein. Thus PRAME is also known as OIP4 (OPA interacting protein), although the functional implications of the interaction are unknown. Recombinant human PRAME fragment corresponds to amino acid sequence Met321 to Ile420.
Product Categories/Family for PRAME recombinant protein	Cytokines & Growth Factors
References	1. Ikeda H et al, Immunity 1997, 6:199-208 2. Haqq C et al, Proc Natl Acad Sci USA 2005, 102:6092 3. Williams JM et al, Mol Microbiol 1998, 27:171-186 4. Nakamura Y et al, Ann Surg Oncol 2007, 14:885-892

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174641
NCBI GeneID	23532
NCBI Accession #	NP_006106.1
NCBI GenBank Nucleotide #	NM_006115.3
UniProt Accession #	P78395 ; O43481 ; Q8IXN8 ; B2R6Y7
Molecular Weight	10.7 kDa
NCBI Official Full Name	melanoma antigen preferentially expressed in tumors
NCBI Official Synonym Full Names	preferentially expressed antigen in melanoma
NCBI Official Symbol	PRAME
NCBI Official Synonym Symbols	MAPE; OIP4; CT130; OIP-4
NCBI Protein Information	melanoma antigen preferentially expressed in tumors; cancer/testis antigen 130; opa-interacting protein 4; Opa-interacting protein OIP4; preferentially expressed antigen of melanoma
UniProt Protein Name	Melanoma antigen preferentially expressed in tumors
UniProt Gene Name	PRAME
UniProt Synonym Gene Names	MAPE; OIP4; OIP-4
UniProt Entry Name	PRAME_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/prame-recombinant-protein-e-coli-wb-western-blot-elisa/14950>