

AP53312PU-N**Polyclonal Antibody to PITRM1 (Center) - Aff - Purified**

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| Alternate names: | KIAA1104, MP1, Metalloprotease 1, Pitrylsin metalloproteinase 1, Presequence protease mitochondrial |
| Quantity: | 0.4 ml |
| Concentration: | lot specific |
| Background: | ATP-independent protease that degrades mitochondrial transit peptides after their cleavage. Also degrades other unstructured peptides. Specific for peptides in the range of 10 to 65 residues. Able to degrade amyloid beta A4 (APP) protein when it accumulates in mitochondrion, suggesting a link with Alzheimer disease. Shows a preference for cleavage after small polar residues and before basic residues, but without any positional preference. |
| Uniprot ID: | Q5IRX3 |
| NCBI: | 9606 |
| Host / Isotype: | Rabbit / Ig |
| Immunogen: | KLH conjugated synthetic peptide between 497-526 amino acids from the Central region of human PITRM1 |
| Format: | State: Liquid purified Ig fraction Purification: Protein A column, followed by peptide affinity purification Buffer System: PBS containing 0.09% (W/V) Sodium Azide as preservative |
| Applications: | ELISA: 1/1000. Western Blot: 1/100-1/500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody recognizes Human PITRM1 (Center). |
| Add. Information: | Molecular Weight: 117455 Da |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010) Pinho, C.M., et al. Neurosci. Lett. 469(2):204-208(2010) Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010) Yoshida, T., et al. Int. J. Mol. Med. 24(4):539-547(2009) Chow, K.M., et al. Biochemistry 48(13):2868-2877(2009) |

Pictures:

Western blot analysis of PITRM1 Antibody (Center) Cat.-No AP53312PU-N in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the PITRM1 antibody detected the PITRM1 protein (arrow).

