

Rabbit Anti-DPP1 antibody

SL2672R

Product Name:	DPP1
Chinese Name:	组织 蛋白 酶C 抗体
Alias:	cathepsin C light chain; Dipeptidyl peptidase I; AI047818; CATC; Cathepsin C; Cathepsin J; CPPI; CTSC; Dipeptidyl peptidase 1; Dipeptidyl transferase; DPP I; DPPI; EC 3.4.14.1; HMS; JP; JPD; MGC126959; PALS; PLS; DPP-I; DPPI.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-
	500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	8/52kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human cathepsin C light chain:365-463/463
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that appears to be a central coordinator for activation of many serine proteinases in immune/inflammatory cells. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor, and a residual

portion of the propeptide acts as an intramolecular chaperone for the folding and stabilization of the mature enzyme. This enzyme requires chloride ions for activity and can degrade glucagon. Defects in the encoded protein have been shown to be a cause of Papillon-Lefevre syndrome, an autosomal recessive disorder characterized by palmoplantar keratosis and periodontitis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

Function:

Thiol protease. Has dipeptidylpeptidase activity. Active against a broad range of dipeptide substrates composed of both polar and hydrophobic amino acids. Proline cannot occupy the P1 position and arginine cannot occupy the P2 position of the substrate. Can act as both an exopeptidase and endopeptidase. Activates serine proteases such as elastase, cathepsin G and granzymes A and B. Can also activate neuraminidase and factor XIII.

Subunit:

Tetramer of heterotrimers consisting of exclusion domain, heavy- and light chains.

Subcellular Location:

Lysosome.

Tissue Specificity:

Ubiquitous. Highly expressed in lung, kidney and placenta. Detected at intermediate levels in colon, small intestine, spleen and pancreas.

Post-translational modifications:

N-glycosylated. While glycosylation at Asn-53, Asn-119 and Asn-276 is mediated by STT3A-containing complexes, glycosylation at Asn-29 is mediated STT3B-containing complexes.

In approximately 50% of the complexes the exclusion domain is cleaved at position 58 or 61. The two parts of the exclusion domain are held together by a disulfide bond.

DISEASE:

Papillon-Lefevre syndrome (PLS) [MIM:245000]: An autosomal recessive disorder characterized by palmoplantar keratosis and severe periodontitis affecting deciduous and permanent dentitions and resulting in premature tooth loss. The palmoplantar keratotic phenotype vary from mild psoriasiform scaly skin to overt hyperkeratosis. Keratosis also affects other sites such as elbows and knees. Note=The disease is caused by mutations affecting the gene represented in this entry.

Haim-Munk syndrome (HMS) [MIM:245010]: An autosomal recessive disorder characterized by palmoplantar keratosis, onychogryphosis and periodontitis. Additional features are pes planus, arachnodactyly, and acroosteolysis. Note=The disease is caused by mutations affecting the gene represented in this entry.

Periodontititis, aggressive, 1 (AP1) [MIM:170650]: A disease characterized by severe and protracted gingival infections, generalized or localized, leading to tooth loss. Amounts of microbial deposits are generally inconsistent with the severity of periodontal



boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by
3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C
for 30min; Antibody incubation with (DPP1) Polyclonal Antibody, Unconjugated
(SL2672R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody
(sp-0023) for 20 minutes and DAB staining.

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