



20210311BB

**Anti-Mouse PCPE-1 (#7H78)****FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-M450</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse recombinant protein of PCPE-1.

**Target Background**

<b>Synonyms (Target):</b>	Pcolce; P14; Astt2; Astd-2; PCPE-1
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Procollagen Cendopeptidase enhancers, known as PCPEs or PCOLCEs, are secreted extracellular matrix glycoproteins that consist of two CUB domains and one NTR domain. They are known to stimulate enzymatic cleavage of procollagens III by the BMP-1/tolloid family of metallo-proteases, also known as procollagen Cproteinases. PCPE1 is expressed primarily by interstitial connective tissues such as tendons, calvaria, and skin. Although BMP1/ tolloid proteinases are involved in processing of multiple extracellular proteins, the enhancer activity of PCPE1 is specific to procollagens since it has no effect on BMP1/ tolloid cleavage of other substrates. It is thought that PCPE1 enhances cleavage of procollagens by binding to the substrate, inducing a conformation change in the substrate, although interaction between PCPE-1 and fulllength BMP-1/ tolloid proteinases has also been reported.

**Database References Target**

<b>Protein RefSeq:</b>	NP_032814.2
<b>Uniprot ID:</b>	Q61398
<b>mRNA RefSeq:</b>	NM_008788.2

**Product Specifications**

<b>Host</b>	Rat
<b>Reactivity against</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#7H78)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant mouse PCPE-1
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody detects specifically mouse PCPE-1 with WB

**AVOID REPEATED FREEZE AND THAW CYCLES!****Applications**

The antibody can be used within the following applications:

WB

**Recommended usage:**

**WB:** 1:100-500

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**