Datasheet for ABIN1172288

anti-MMP13 antibody (AA 62-217)

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Overview

Quantity:	100 µL
Target:	MMP13
Binding Specificity:	AA 62-217
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	MMP13 (Arg62-His217)
Isotype:	IgG
Specificity:	The antibody is a rabbit polyclonal antibody raised against MMP13. It has been selected for its ability to recognize MMP13 in immunohistochemical staining and western blotting.
Purification:	Antigen-specific affinity chromatography

Target Details

Target:	MMP13
Alternative Name:	Matrix Metalloproteinase 13 (MMP13) (MMP13 Products)
Background:	Alternative Names: CLG3, Collagenase 3

Application Details

Application Notes:	• Western blotting: 1:50-400 Immunocytochemistry in formalin fixed cells: 1:50-500 Immunohistochemistry in formalin fixed frozen section: 1:50-500 Immunohistochemistry in paraffin section: 1:10-100 Enzyme-linked Immunosorbent Assay: 1:100-1:5000 Optimal working dilutions must be determined by end user.
Comment:	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37&degC for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, pH 7.4, containing 0.02 % Sodium azide, 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	4 °C
Storage Comment:	Store at 2-8 °C for one month. Aliquot and store at -80 °C for 12 months.
Expiry Date:	12 months

Publications

Product cited in:	De Falco, Avitabile, Totta, Straino, Spallotta, Cencioni, Torella, Rizzi, Porcelli, Zacheo, Di Vito, Pompilio, Napolitano, Melillo, Capogrossi, Pesce: "Altered SDF-1-mediated differentiation of bone marrow-derived endothelial progenitor cells in diabetes mellitus." in: **Journal of cellular and molecular medicine**, Vol. 13, Issue 9B, pp. 3405-14, (2010) (PubMed).

Publications

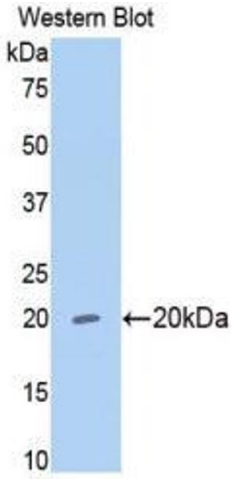
Cantley, Neel: "New insights into tumor suppression: PTEN suppresses tumor formation by restraining the phosphoinositide 3-kinase/AKT pathway." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 96, Issue 8, pp. 4240-5, (1999) (PubMed).

Ferrigno, Silver: "Regulated nuclear localization of stress-responsive factors: how the nuclear trafficking of protein kinases and transcription factors contributes to cell survival." in: **Oncogene** , Vol. 18, Issue 45, pp. 6129-34, (1999) (PubMed).

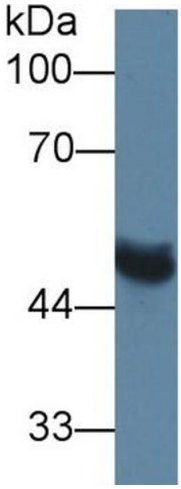
Kandel, Hay: "The regulation and activities of the multifunctional serine/threonine kinase Akt/PKB." in: **Experimental cell research**, Vol. 253, Issue 1, pp. 210-29, (1999) (PubMed).

Alessi, Andjelkovic, Caudwell, Cron, Morrice, Cohen, Hemmings: "Mechanism of activation of protein kinase B by insulin and IGF-1." in: **The EMBO journal**, Vol. 15, Issue 23, pp. 6541-51, (1997) (PubMed).

Images

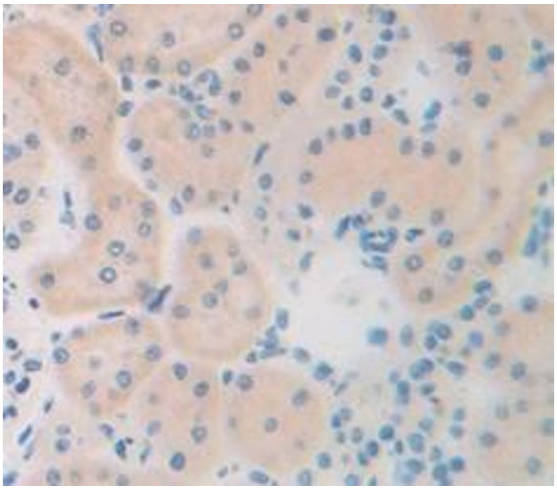


Western Blotting
Image 1.



Western Blotting

Image 2. Western Blot; Sample: Rat Serum; Primary Ab: 1µg/ml Rabbit Anti-Rat MMP13 Antibody Second Ab: 0.2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



Immunohistochemistry

Image 3. Figure.DAB staining on IHC-P. Samples: Rat Tissue

