



BMA BIOMEDICALS

Monoclonal Antibody to Porcine Albumin

Marker for the major plasma protein

Monoclonal antibody PEM311 reacts specifically with pig albumin, not with albumin from other mammalian species. Albumin has been listed as a stem cell marker for hepatocytes by the U.S. National Institutes of Health.

Serum albumin is a globular non-glycosylated protein of 65-70kDa molecular weight, well water-soluble and heat-intolerant. It mainly functions as a regulator of colloidal osmotic pressure and as a transport protein for molecules that are poorly water-soluble, and for zinc. Serum albumin is the most abundant of all plasma proteins. Albumin consists of three homologous domains that mainly contain alpha-helices, porcine albumin contains seventeen disulfide bonds altogether.

This antibody was produced serum-free, without fetal calf serum.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

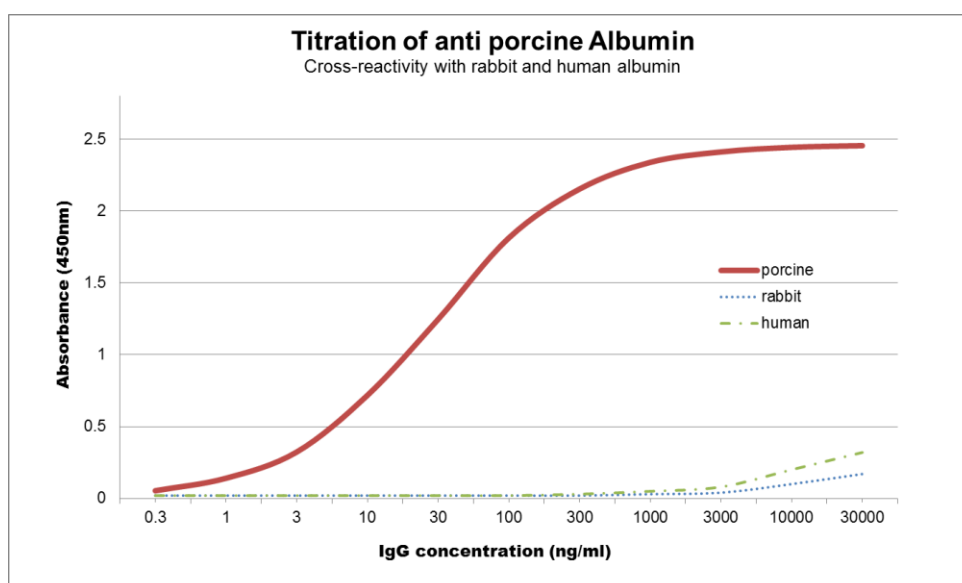
Product Number:	T-3517 (Lot 01PO1508)
Clone:	PEM311
Host species, isotype:	Mouse IgG1, kappa
Quantity:	0.1mg
Format:	Affinity purified from cell culture supernatant, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Avoid freeze-thaw cycles.
Applications:	Tested in immunohistochemistry (IHC), Western blot and ELISA, other applications not yet tested. Approximate working dilutions: IHC, frozen sections: not tested IHC, paraffin sections: 0.1µg/ml (1:2000); pretreatment with Proteinase K for antigen retrieval is recommended (T-3401) Western Blot: 0.25µg/ml Optimal dilutions should be determined by the end user Please see www.bma.ch for protocols and general information
Immunogen:	Porcine lung extract
Protein database:	<u>pig-P08835</u>

Antigen, epitope: Immunoprecipitation and subsequent identification by nanoLC-ESI-MS/MS identified the antigen as porcine albumin. The epitope has not been further characterized.

Antigen distribution: **Tissue sections:** Hepatocytes of the liver and some exocrine glandular cells of the pancreas are stained positive, and albumin in the blood vessels of all organs.

Specificity: Porcine Albumin

Other species: Western Blot analysis indicates no detectable reactivity with human, horse, rat, goat, bovine, sheep or donkey albumin. Titration of the antibody against purified porcine, human or rabbit albumin confirms minimal cross-reactivity.



For in vitro research only. This product contains Kathon™ CG as a preservative.