



BMA BIOMEDICALS

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Rheinstrasse 28-32
CH-4302 Augst (Switzerland)
Phone: +41 61 811 6222
Fax: +41 61 811 6006
info@bma.ch
www.bma.ch

Monoclonal Antibody To Porcine IgG
Specific for the light chain of porcine immunoglobulins

Monoclonal antibody PHE425 is a particularly useful marker of swine immunoglobulin light chains. Based on Western blots, the antibody reacts exclusively with free light chains after chemical reduction, and with light chains on intact immunoglobulins. It has been validated for use in immunological techniques such as ELISA, Western blot or immunohistochemistry on formalin-fixed tissue sections, and can be used as primary or secondary reagent. Swine antibodies are organized and synthesized as in other mammals, with two kinds of light chains, kappa and lambda. The antibody has shown minimal cross-reaction with human and rabbit immunoglobulins, but it may cross-react with immunoglobulins from other species.

This antibody was produced serum-free, without fetal calf serum. Not from ascites.

Product number: T-3533

Clone: PHE425

Lot: 01PO1534

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

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. Avoid repeated thawing and freezing of the reconstituted antibody.
Applications:	Tested for immunohistochemistry (IHC), ELISA and Western Blot, other applications not yet tested. Approximate working dilutions: IHC, frozen sections: 0.1µg/ml (1:2000) IHC, paraffin sections: 0.25µg/ml (1:800); Proteinase K pretreatment for antigen retrieval is recommended. Western Blot: 0.05 – 0.5µg/ml. ELISA: 20 - 50ng/ml (EC50 of 1ng/ml illustrated below) Optimal dilutions should be determined by the end user. Please see www.bma.ch for protocols and general information.
Immunogen:	Porcine liver extract.
Antigen, epitope:	The antigen has been identified as porcine immunoglobulin light chain, the subclass has not been further identified.

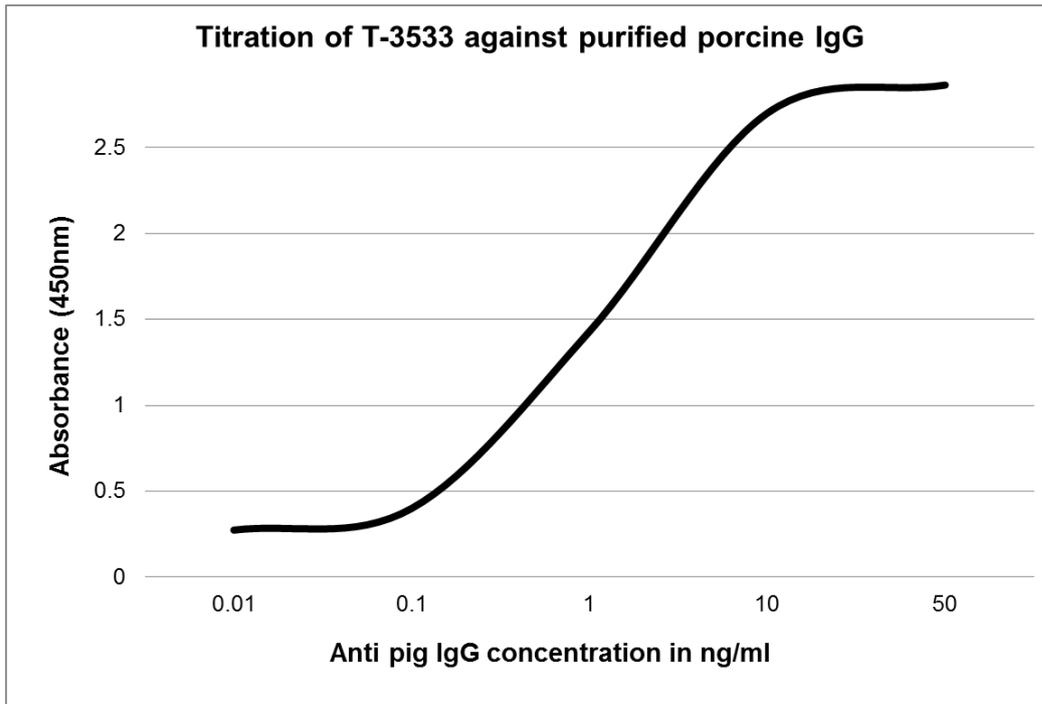
Antigen distribution:

Tissue sections: The antibody reacts with the light chains of immunoglobulin G in porcine organs, predominantly with immunoglobulins in the interstitial fluid (ISF).

Specificity:

This clone PHE425 reacts specifically with porcine IgG, but not with human or rabbit IgG. Western Blot analysis with purified porcine IgG under non-reducing and reducing conditions yielded bands at 150kDa and 25kDa, respectively, consistent with intact IgG and kappa or lambda light chain, respectively.

Performance of monoclonal antibody PHE425 in ELISA:



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