

Canine Permeability glycoprotein ELISA Kit | P-gp elisa kit

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CATALOG #
AAA88491

REACTIVITY
Canine

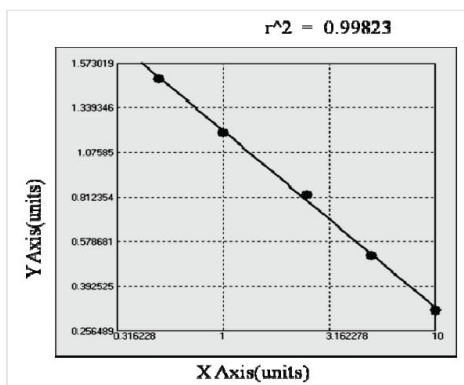
PRODUCT SYNONYMS

Permeability glycoprotein; Canine Permeability glycoprotein ELISA Kit; P-gp elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This P-GP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine P-GP. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for P-gp elisa kit

Principle of the assay: P-GP ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-P-GP antibody and an P-GP-HRP conjugate. The assay sample and buffer are incubated together with P-GP-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the P-GP concentration since P-GP from samples and P-GP-HRP conjugate compete for the anti-P-GP antibody binding site. Since the number of sites is limited, as more sites are occupied by P-GP from the sample, fewer sites are left to bind P-GP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The P-GP concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33307712
NCBI GeneID	340273
Molecular Weight	138,641 Da
NCBI Official Full Name	P-glycoprotein
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family B (MDR/TAP), member 5
NCBI Official Symbol	ABCB5
NCBI Official Synonym Symbols	ABCB5beta; EST422562; ABCB5alpha
NCBI Protein Information	ATP-binding cassette sub-family B member 5; ABCB5 P-gp; P-glycoprotein ABCB5; ATP-binding cassette protein
UniProt Protein Name	ATP-binding cassette sub-family B member 5
UniProt Gene Name	ABCB5
UniProt Entry Name	ABCB5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/p-gp-canine-elisa-kits/permeability-glycoprotein/88491>