Anti-Pancreatic alpha-amylase [AMD9] Standard Size Ab02086-1.159

> This chimeric mouse antibody was made using the variable domain sequences of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1-Fc fusion, Kappa
Clone Number: AMD9
Alternative Name(s) of Target: PA; AMY2; 1,4-alpha-D-glucan glucanohydrolase
UniProt Accession Number of Target Protein: P00690
Published Application(s): ELISA
Published Species Reactivity: Pig (Sus scrofa)
Immunogen: The original antibody was generated by immunizing dromedary with the enzyme and isolating specific binders from the VHH cloned from peripheral blood lymphocytes.
Specificity: This antibody binds the active site crevice of the porcine pancreatic alpha-amylase and is a strong amylase inhibitor.
Application Notes: This antibody can bind porcine pancreatic alpha-amylase in an ELISA and inibits the enzyme with an IC50 = 10nM (PMID: 9649422). This antibody interacts with the amino acid residues in the alpha amylase catalytic site and has a strong inhibitary action on the catalytic activity of the enzyme. The inhibitory interaction of AMD9 involved mainly its complementarity-determining region (CDR) 2 loop, whereas the CDR3 loop was small and certainly did not protrude (PMID: 11960990).
Antibody First Published in: Lauwereys et al. Potent enzyme inhibitors derived from dromedary heavy-chain antibodies. The EMBO Journal (1998), Vol.17 No.13, pp.3512–3520. PMID:9649422
Note on publication: Describes the generation of this antibody

Product Form

Size: 100 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4⁰C for up to 3 months. For longer storage, aliquot and store at -20⁰C.
Concentration:

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.