

CATALOGUE #: 4VS4

PRODUCT NAME: Monoclonal anti-serum amyloid A (SAA), animal

Recombinant MAbs: F501, F529, F550, F571

Recombinant chimeric antibody expressed in a mammalian cell line. Composed of original wild type variable domains of rat derived MAb and human IgG1 constant domains.

MAbs *in vitro*:

F173, F227, F231, F240, SAA19cc, SAA21cc, VSA31cc, VSA34cc, VSA38cc

Mouse monoclonal antibody produced in bioreactor. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

MAbs *in vivo*:

VSA2, VSA43

Mouse monoclonal antibody produced in ascites. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

Immunogens:

Feline SAA for F173, F227, F231, F240, F501, F529, F550, F571

Human SAA for SAA19cc, SAA21cc

Canine SAA for VSA31cc, VSA34cc, VSA38cc

Synthetic peptides derived from the region 79-104 a.a.r. of canine SAA for VSA2, VSA43

Specificity:

MAb	Feline SAA	Canine SAA	Equine SAA	Human SAA
F501	+	-	-	-
F529	+	-	-	-
F550	+	-	-	-
F571	+	-	-	-
F173	+	+	+	+
F227	+	+	+	+
F231	+	+	+	+
F240	+	+	+	+
SAA19cc	+	+	+	+
SAA21cc	+	+	+	+
VSA31cc	+	+	+	+
VSA34cc	+	+	+	+
VSA38cc	+	+	+	+
VSA2	-	+	+	+
VSA43	+/-	+	+	+

MAb isotypes:

IgG1 for F501, F529, F550, F571, F227, F231, VSA2

IgG2a for F173, F240, SAA19cc, VSA31cc, VSA38cc

IgG2b for SAA21cc, VSA34cc, VSA43

Purification:

Protein A chromatography

Presentation:

PBS, pH 7.4, 0.09 % sodium azide (NaN₃), 5 mM EDTA for F501, F529, F550, F571

PBS, pH 7.4, 0.09 % sodium azide (NaN₃) for F173, F227, F231, F240, SAA19cc, VSA31cc, VSA34cc, VSA38cc, VSA2, VSA43

50 mM citrate, 150 mM NaCl, pH 6.0, 0.09% azide (NaN₃) for SAA21cc

CATALOGUE #: 4VS4

PRODUCT NAME: Monoclonal anti-serum amyloid A (SAA), animal

Applications:

Recommended pairs for sandwich immunoassay:

Feline SAA:

Capture	Detection
F227	F529
F231	F550
F240	F501
F240	F550
F571	F173

Canine and equine SAAs:

Capture	Detection
VSA2	VSA38cc
VSA2	VSA31cc
VSA38cc	VSA43

Canine, feline, and equine SAAs:

Capture	Detection
SAA19cc	VSA34cc

Recommended pairs for lateral flow (detection antibody conjugated with colloidal gold):

Feline SAA:

Capture	Detection
F550	F231
F529	F227
F501	F240

Storage:

+4 °C (+2 ... +8 °C allowed)

Other information:

Pair SAA19cc – VSA34cc:

Plates blocking with casein is needed to prevent non-specific binding of SAA to the wells of an immunoassay plate. We recommend avoiding using bovine serum albumin (BSA) as a buffer component or blocking agent. In buffers, BSA can be replaced with 1% casein. According to our data, Tween 20 lowered the signal when it was used in concentration 0.05-0.1% in antigen dilution buffer. When lower concentration of Tween 20 was used (0.005-0.025%), non-specific binding of SAA to the wells of an immunoassay plate was observed. Therefore, we recommend starting assay optimization using 0.01% CHAPS in antigen dilution and washing buffers. We recommend carrying out immunoassay at room temperature.

Pairs VSA2 – VSA38cc, VSA2 – VSA31cc, VSA38cc – VSA43, F571 – F173:

Plates blocking with casein is needed to prevent non-specific binding of SAA to the wells of an immunoassay plate. For pairs VSA2 – VSA38cc, VSA2 – VSA31cc and VSA38cc – VSA43 we recommend avoiding using BSA as a buffer component or blocking agent. In buffers, BSA can be replaced with 1% casein. We recommend using antigen dilution buffer containing 0.05% Tween 20. We recommend carrying out immunoassay at 37 °C.

Pairs F227 – F529, F231 – F550, F240 – F501, F240 – F550:

Plate blocking is not needed. We recommend using antigen dilution buffer containing 10 mg/ml BSA and 0.05% Tween 20. We recommend carrying out immunoassay at room temperature.

Material safety note:

This product is sold **for research or further manufacturing use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.