

Rat SBP1 (Selenium-binding protein 1) ELISA Kit | SBP1 elisa kit

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CATALOG #
AAA248881

REACTIVITY
Rat

PRODUCT SYNONYMS

SBP1 (Selenium-binding protein 1); Rat SBP1 (Selenium-binding protein 1) ELISA Kit; SBP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of SBP1. No significant cross-reactivity or interference between SBP1 and analogues was observed.
Sequence Length	490
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SBP1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SBP1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a SBP1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A:Not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.004	0.18	0.317	0.621	1.028	1.502	1.959	2.391

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SBP1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-SBP1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- SBP1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the SBP1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of SBP1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15236385
NCBI GeneID	827039
NCBI Accession #	NP_193139.1
NCBI GenBank Nucleotide #	NM_117478.6
UniProt Accession #	O23264; Q42178; Q93WU0
Molecular Weight	54,057 Da
NCBI Official Full Name	selenium-binding protein 1
NCBI Official Symbol	SBP1
NCBI Official Synonym Symbols	AtSBP1; DL3055C; FCAALL.79; selenium-binding protein 1
NCBI Protein Information	selenium-binding protein 1
UniProt Protein Name	Selenium-binding protein 1
UniProt Gene Name	SBP1

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/rat-elisa-kits/sbp1-selenium-binding-protein-1/248881>