

## Human SMYD3 (SET and MYND domain containing 3) ELISA Kit | SMYD3 elisa kit

Human SMYD3 (SET and MYND domain containing 3) ELISA Kit

CATALOG #  
**AAA248929**

REACTIVITY  
**Human**

### PRODUCT SYNONYMS

SMYD3 (SET and MYND domain containing 3); Human SMYD3 (SET and MYND domain containing 3) ELISA Kit; SMYD3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                        |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of SLC40A1. No significant cross-reactivity or interference between SLC40A1 and analogues was observed.                              |
| Sequence Length         | 428                                                                                                                                                                                                          |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                                                              |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                         |
| Detection Range         | 31.25-2000pg/ml                                                                                                                                                                                              |
| Sensitivity             | 18.75pg/ml                                                                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SLC40A1 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 SLC40A1 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 SMYD3 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    | 31.25 | 62.5  | 125   | 250   | 500   | 1000  | 2000  |
|---|-------|------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.08 | 0.092 | 0.112 | 0.154 | 0.259 | 0.485 | 0.999 | 2.022 |

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for SMYD3 elisa kit

**Principle of the Assay:** This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-SLC40A1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-SLC40A1 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 SLC40A1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of SLC40A1 can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| NCBI GI #                        | 38494371                                 |
| NCBI GeneID                      | 69726                                    |
| Molecular Weight                 | 49,126 Da                                |
| NCBI Official Full Name          | SET and MYND domain containing 3         |
| NCBI Official Synonym Full Names | SET and MYND domain containing 3         |
| NCBI Official Symbol             | Smyd3                                    |
| NCBI Official Synonym Symbols    | Zmynd1; 2410008A19Rik                    |
| NCBI Protein Information         | histone-lysine N-methyltransferase SMYD3 |
| UniProt Protein Name             | Histone-lysine N-methyltransferase SMYD3 |
| UniProt Gene Name                | <b>Smyd3</b>                             |
| UniProt Synonym Gene Names       | Zmynd1                                   |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/smyd3-set-and-mynd-domain-containing-3/248929>