



User's Manual

Human STAP1 ELISA Kit



DEIABL527



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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PRODUCT INFORMATION

Intended Use

This Human STAP1 ELISA Kit is used for the quantitative measurement of human STAP1 in cell lysate.

Individual users should determine appropriate conditions when using other types of samples.

This assay kit is for research use only and not for use in diagnostic or therapeutic procedures.

General Description

STAP1 (signal transducing adaptor protein 1) also known as BRDG1 (BCR downstream signaling 1), which had been identified as an interacting protein with the kinase domain of TEC tyrosine kinase, appears to function as a docking protein acting downstream of TEC in B cell receptor signaling containing pleckstrin homology, Src homology 2-like domains and a proline-rich region. STAP1 is induced in activated bone marrow-derived macrophages, and by CpG, LPS, and interferon in myeloid cell lines. In addition STAP1 expressing cells show strongly reduced migration.

In 2014, on the other hand, STAP1 was discovered as a fourth gene responsible for autosomal dominant hypercholesterolemia; familial hypercholesterolemia 4 (FH4) following LDLR (FH1), apolipoprotein B (FH2) and PCSK9 (FH3).

Reagents And Materials Provided

Microplate: One microplate supplied ready to use, with 96 wells (12 strips of 8-wells) in a foil, zip-lock bag with a desiccant pack. Wells are coated with anti-human STAP1 antibody as a capture antibody.

10X Wash Buffer: One bottle containing 100 mL of 10X buffer containing Tween®-20

Dilution Buffer: One bottle containing 50 mL of 1X buffer; use for reconstitution of Human STAP1 Standard and sample dilution. Ready to use.

Human STAP1 Standard: One vial containing X* ng of lyophilized recombinant human STAP1.

*The amount is changed depending on lot. See the real "Datasheet" included in the kit box.

HRP conjugated Detection Antibody: One bottle containing 12 mL of HRP (horseradish peroxidase) conjugated anti-human STAP1 antibody. Ready to use.

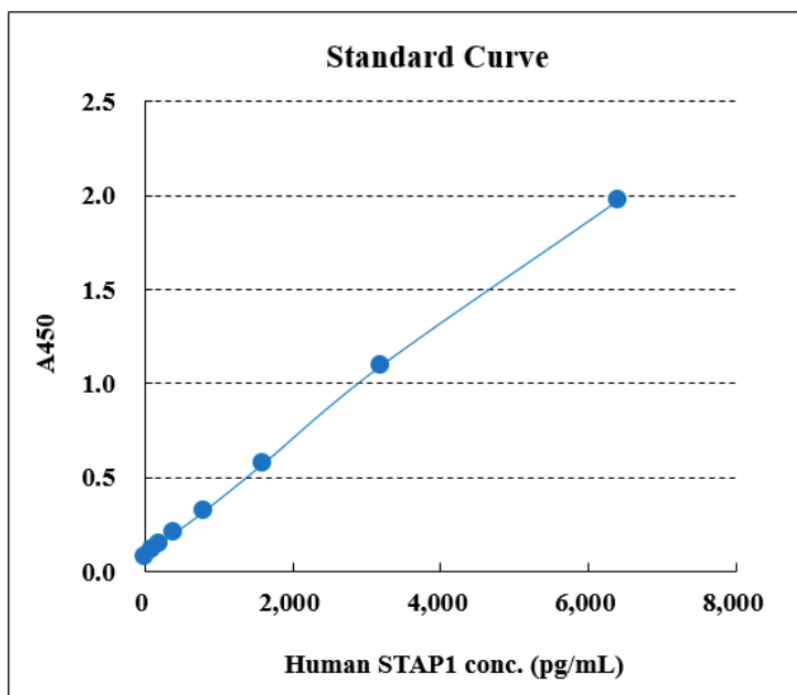
Substrate Reagent: One bottle containing 20 mL of the chromogenic substrate, tetra-methylbenzidine (TMB). Ready to use.

Stop Solution: One bottle containing 20 mL of 1 N H₂SO₄. Ready to use.

Storage

- Upon receipt store all components at 4°C.
- Don't expose reagents to excessive light.

Typical Standard Curve



Precision

Intra-assay (Within-Run, n=14) CV=3.7-8.8 %

Inter-assay (Run-to-Run, n=4) CV=3.2-9.3 %

Sensitivity

The limit of detection (defined as such a concentration of human STAP1 giving absorbance higher than mean absorbance of blank* plus three standard deviations of the absorbance of blank: A blank + 3SD blank) is better than 65 pg/mL of sample.