

## PRODUCT DATA SHEET

### Apolipoprotein D Human, Sheep Polyclonal Antibody

**Cat. No.:** RD184118100

**Source of Antigen:** E. coli

**Host:** Sheep

**Size:** 0.1 mg

**Type:** Polyclonal Antibody

**Other Names:**

Apo D

**Preparation:**

The antibody was raised in sheep by immunization with the recombinant Human Apolipoprotein D.

**Amino Acid Sequence of Immunogen:**

The immunization antigen (19.82 kDa – calculated) is a protein containing 174 AA of recombinant Human Apolipoprotein D. C-terminal His-tag, 7 extra AA. The amino acid sequence of this product corresponds to the UniProtKB/Swiss-Prot entry P05090 (Human ApoD). Following modifications were made: Four amino acid exchanges were introduced at the surface of ApoD (Trp99His, Cys116Ser, Ile118Ser, Leu120Ser) to enhance the solubility of the recombinant protein and another three (Leu23Pro, Pro133Val, Asn134Ala) to facilitate its genetic manipulation.

FHLGKCPNPP VQENFDVNKY PGRWYEIEKI PTTFENGRCI QANYSLMENG KIKVLNQELR  
ADGTVNQIEG EATPVNLTEP AKLEVKFSWF MPSAPYHILA TDYENYALVY SCTSISQSFH  
VDFAWILARN VALPPETVDS LKNILTSNNI DVKKMTVTDQ VNCPKLSAHH HHHH

**Purification Method:**

Immunoaffinity chromatography on a column with immobilized recombinant Human Apolipoprotein D.

**Species Reactivity:**

Human. Not yet tested in other species.

**Antibody Content:**

0.1 mg (determined by BCA method, BSA was used as a standard)

**Formulation:**

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2.

**Reconstitution:**

Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

**Shipping:**

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

**Storage/Stability:**

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

**Quality Control:**

Indirect ELISA – to determine titer of the antibody

SDS PAGE – to determine purity of the antibody

BCA - to determine quantity of the antibody

**Applications:**

ELISA, Immunohistochemistry, Western blotting

**Note:**

This product is for research use only.