

## PRODUCT DATA SHEET

### Osteoblast Specific Factor 2 Human, Sheep Polyclonal Antibody

**Cat. No.:** RD184045100

**Size:** 0.1 mg

**Source of Antigen:** E. coli

**Type:** Polyclonal Antibody

**Host:** Sheep

#### Other Names:

Periostin, PN, OSF-2, POSTN, Fasciclin-I like, Osteoblast Specific Factor 2 (Pleiotrophin, PTN, Heparin-binding growth-associated molecule, HB-GAM, Heparin-binding growth factor 8, HBGF-8, OSF-2, Heparin-binding neurite outgrowth-promoting factor 2, HBNF-2, Heparin-binding brain mitogen, HBBM ), NCK

#### Preparation:

The antibody was raised in sheep by immunization with the recombinant Human OSF-2.

#### Amino Acid Sequence of Immunogen:

The immunization antigen (75 kDa) is a protein containing 648 AA of recombinant Human OSF-2 and 23 AA, N-Terminal HisTag and Xa – cleavage site (highlighted). The antigen contains amino acid residues 22 to 669 of the human OSF-2 precursor. The antigen includes all four fasciclin domains of OSF-2.

MGHHHHHHHH HHSSGHIEGR HMRNNHYDKI LAHSRIRGRD QGPNVCALQQ  
ILGTTKKYFS TCKNWKYSI CGQKTTVLYE CCPGYMRMEG MKGCPAVLPI DHVYGTGIV  
GATTTQRYSD ASKLRREEIEG KGSFTYFAPS NEAWDNLSD IRRGLESNVN VELLNALHSH  
MINKRMLTKD LKNGMIIPSM YNNLGLFINH YPNGVVTVNC ARIIHGNQIA TNGVVHVIDR  
VLTQIGTSIQ DFIEAEDDLS SFRAAAITSD ILEALGRDGH FTLFAPTNEA FEKLPRGVLE  
RFMGDKVASE ALMKYHILNT LQCSESIMGG AVFETLEGNT IEIGCDGDSI TVNGIKMVNK  
KDIVTNGVI HLIDQVLIPD SAKQVIELAG KQQTTFDLV AQLGLASALR PDGEYTLAP  
VNNAFSDDL SMVQRLLKLI LQNHLKVKV GLNELYNGQI LETIGGKQLR VFVYRTAVCI  
ENSCMEKGSK QGRNGAIHIF REIKPAEKS LHEKLNQDKR FSTFLSLLEA ADLKELLTQP  
GDWTLFVPTN DAFKGMTSEE KEILIRDKNA LQNIILYHLT PGVFIGKGF PGVTNLIKTT  
QGSKIFLKEV NDTLLVNLK SKESDIMTTN GVIHVVDKLL YPADTPVGN QLLEILNKLI  
KYIQIKFVRG STFKEIPVTY Y

#### Purification Method:

Immunoaffinity chromatography on a column with immobilized recombinant Human OSF-2.

#### 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. \*\*AZIDE FREE\*\*.

**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  $-20^{\circ}\text{C}$ . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at  $-80^{\circ}\text{C}$ . Reconstituted antibody can be stored at  $4^{\circ}\text{C}$  for a limited period of time; it does not show decline in activity after one week at  $4^{\circ}\text{C}$ .

**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:**

Immunohistochemistry, Western blotting

**Note:**

This product is for research use only.