

Product datasheet for **DP2018**

Pleiotrophin (PTN) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western blot. Immunohistochemistry.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant human OSF-1 (E.coli)
Specificity:	This antibody recognizes Human Osteoblast Specific Factor 1.
Formulation:	Azide Free, 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2 State: Aff - Purified State: Lyophilized purified IgG fraction Preservative: None
Reconstitution Method:	Add 0.05 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.
Concentration:	1.0 mg/ml (after reconstitution)
Purification:	Immunoaffinity chromatography on a column with immobilized recombinant Human OSF-1
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	pleiotrophin
Database Link:	Entrez Gene 5764 Human P21246



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Background:

Pleiotrophin (Osteoblast-Specific Factor-1, OSF-1) contains 136 amino acid residues. The sequence is very rich in cationic amino acids (24% of the residues); lysine cluster sequences are found in the N-terminal and C-terminal ends of the structure. The OSF-1 gene was shown by Northern blotting analysis to be expressed in mouse calvarial osteoblast-enriched cells and in mouse brain tissues, but not in thymus, spleen, kidney, liver, lung, testis or heart.

Pleiotrophin has the ability to promote adhesion, migration, expansion, and differentiation of human osteoprogenitor cells. In addition to certain types of cancer, the embryonic growth and differentiation factor pleiotrophin is found also in adults in inflammatory diseases. In osteoarthritis, pleiotrophin is especially expressed in early stages, and its concentrations in the synovial fluid could serve as a marker for the progress of the disease. Pleiotrophin might be involved in cartilage

repair in osteoarthritis, in particular, in earlier stages.

Total 152 AA. MW: 17.3 kDa. N-Terminal His-tag and thrombin cleavage site 16 AA (highlighted).

Synonyms:

HBNF1, HBNF-1, NEGF1, HBBM, HBGF-8, HB-GAM, OSF1, OSF-1