

FREE soluble RANKL



High Sensitivity ELISA



Setting the **standard**
for **clinical** research.

FREE soluble RANKL High Sensitivity ELISA (BI-20462)

Why measure free soluble RANKL?

RANKL exists in both membrane-bound and biologically active soluble forms. Most of the circulating soluble RANKL is complexed with OPG, thus neutralizing its effects. Free soluble uncomplexed RANKL levels are elevated in various human diseases, including nontraumatic fractures, rheumatoid arthritis, inflammatory bowel disease, multiple myeloma, and cardiovascular disease. RANKL also plays a role in the development of breast cancer and type 2 diabetes mellitus. Future analyses of free soluble RANKL with a highly sensitive assay could range from drug efficacy studies to screening for the early detection of diseases.

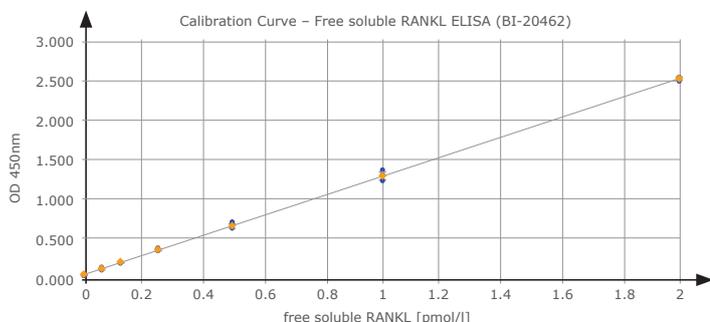
Features and Benefits

- HIGHLY SENSITIVE – Measurable concentrations of free soluble uncomplexed RANKL in healthy subjects!
- FULLY VALIDATED – according to ICH Q2
- SERUM BASED STANDARDS and CONTROLS
- CE MARKED

Assay Characteristics

- Method: Sandwich ELISA, HRP/TMB, 12x8-well strips
- Sample type: Serum, Heparin plasma
- Standard range: 0 – 2 pmol/l (7 serum based standards + 2 controls)
- Sample volume: 150 µl / test
- Detection limit: 0.01 pmol/l (0 pmol/l + 3 SD)
- Incubation: 2 h / o.n. / 1 h / 30 min
- Precision: Intra-assay (n=5) ≤ 4%, Inter-assay (n=12) ≤ 3%

Typical Standard Curve



Serum values of FREE soluble uncomplexed RANKL in apparently healthy subjects

n=32	Free sRANKL [pmol/l]
Mean value	0.17
Median	0.15
Percentile 95%	0.43
Percentile 5%	0.04

Related Biomedica Bone Products

- Sclerostin ELISA, Cat.No. BI-20492
- DKK-1 ELISA, Cat.No. BI-20413
- OPG ELISA, Cat.No. BI-20403
- Cathepsin K ELISA, Cat.No. BI-20432