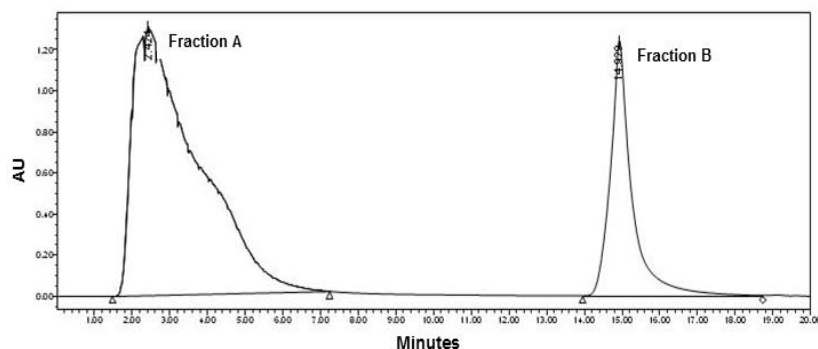
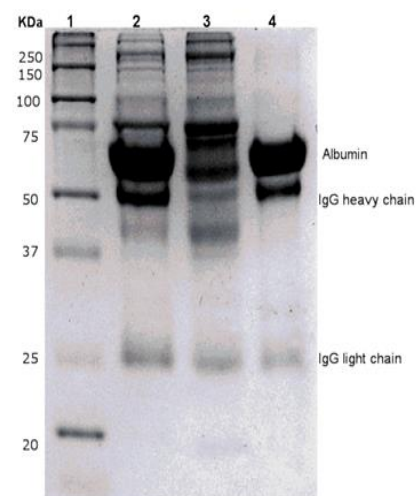


**a)**

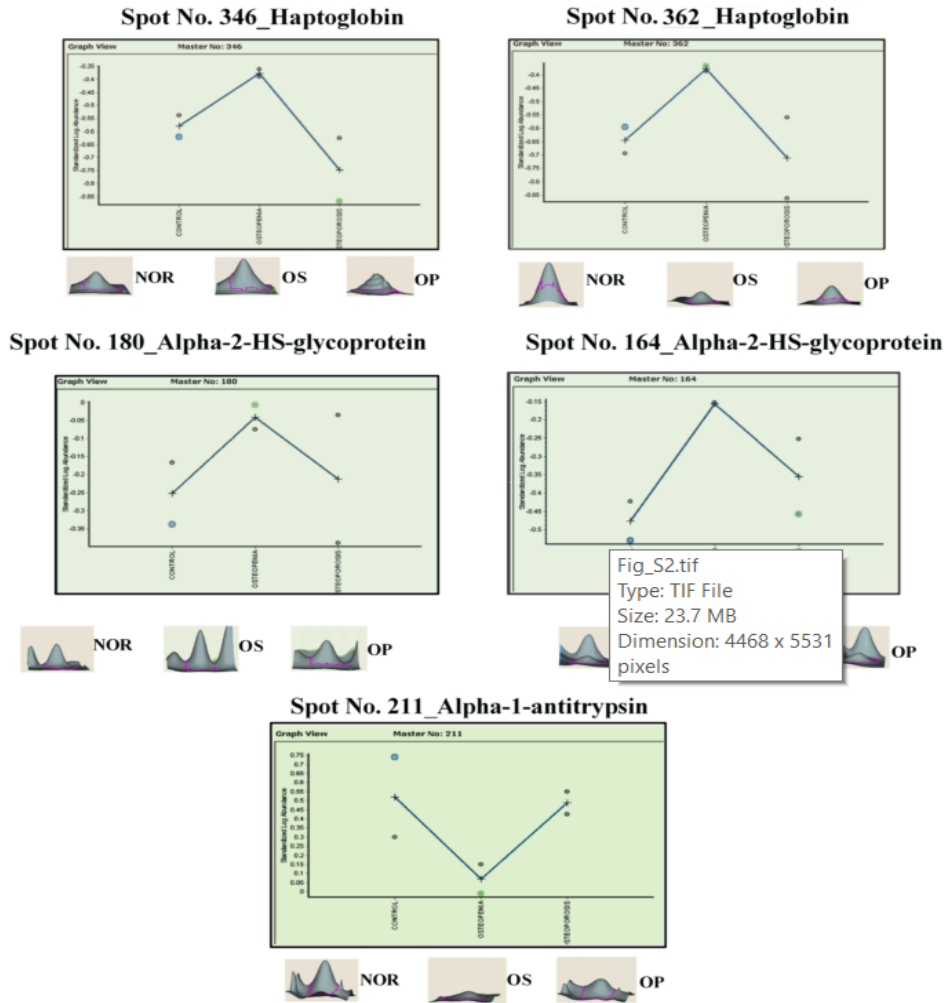


Fraction	Retention time	Area	Area %
A ( sample depleted )	2.424	15825585	76.03
B (albumin and IgG's)	14.929	49269392	23.97

**b)**



**Figure S1:** Depletion of albumin and IgG's in serum samples. **(a)** Representative chromatogram obtained after depletion. Fraction A: Depleted proteins and Fraction B: Immunoglobulin G and albumin. **(b)** SDS-PAGE of serum proteins before and after depletion. Line 1: Weight marker, lane 2: serum before depletion, lane 3: depleted proteins (fraction A), Lane 4: albumin and IgG's (fraction B). Twenty micrograms of proteins were loaded per lane and separated in 10% polyacrylamide gel and visualized by Coomassie blue staining.



**Figure S2:** Additional differentially expressed proteins in postmenopausal women implicated in bone metabolism. The 3D images show the intensity representation of those proteins selected for their association to BMD and with a role in bone remodeling. Proteins identified in the biological variation analysis (BVA), with  $p$ -value  $> 0.05$  between the group of women with OS and OP.