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## Product Datasheet

### Human Collagen Type II Alpha 1 (COL2alpha1) ELISA Kit BYT-ORB1807607

|                            |   |
|----------------------------|---|
| Article Name               | Human Collagen Type II Alpha 1 (COL2alpha1) ELISA Kit         |
| Biozol Catalog Number      | BYT-ORB1807607  |
| Supplier Catalog Number    | orb1807607  |
| Alternative Catalog Number | BYT-ORB1807607-48,BYT-ORB1807607-96                           |
| Manufacturer               | Biorbyt   |
| Category                   | Kits/Assays   |
| Species Reactivity         | Human   |
| Product Description        | Human Collagen Type II Alpha 1 (COL2alpha1) ELISA Kit...      |
| Range                      | 0.63-40ng/mL  |
| Sensitivity                | 0.239 ng/mL   |
| UniProt                    | <a href="#">P02458</a>  |
| Samples                    | serum, plasma, Tissue homogenate and Other biological samples |
| Target                     | COL2a1  |

Application Notes

Application Notes: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human COL2alpha1. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human COL2alpha1 and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human COL2alpha1, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm  $\pm$  2 nm. The OD value is proportional to the concentration of Human COL2alpha1. You can calculate the concentration of Human COL2alpha1 in the samples by comparing the OD of the samples to the standard curve