# IGF1 Polyclonal Antibody

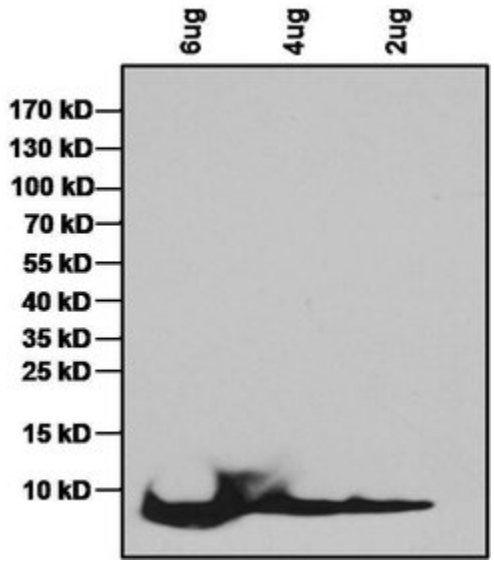
| Product Details | |
|---|---|
| Size | 200 µg |
| Species Reactivity | Human |
| Host/Isotope | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein G |
| Storage buffer | PBS |
| Contains | no preservative |
| Storage Conditions | -20°C |
| RRID | AB_2539893 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| ELISA (ELISA) | 1 µg/mL | - |
| Western Blot (WB) | 1:500-1:2000 | - |

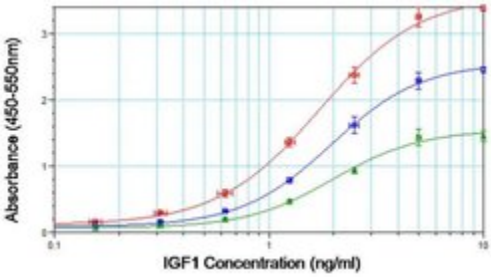
### Product Specific Information

PA1-130 has been successfully used as a detection antibody in a sandwich ELISA with Product # MA1-088 as the coating antibody.

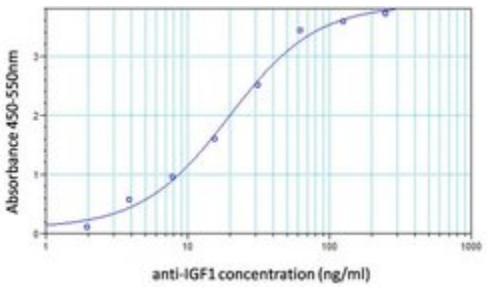
## Product Images For IGF1 Polyclonal Antibody




**IGF1 Antibody (PA1-130) in WB**
Western blot analysis of human IGF1 was performed by loading the indicated amounts of recombinant human IGF1 protein per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with StartingBlock (TBS) Blocking Buffer (Product # 37542) for at least 1 hour. The membrane was probed with an IGF1 polyclonal antibody (Product # PA1-130) at a concentration of 1 µg/mL overnight at 4C on a rocking platform, washed in TBS-0.1% Tween-20, and probed with a goat anti-rabbit IgG-HRP secondary antibody (Product # 31460) at a dilution of 1:10000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).




**IGF1 Antibody (PA1-130) in ELISA**
Sandwich ELISA analysis of an anti-human IGF1 polyclonal antibody (Product # PA1-130) was performed by loading 100 µL per well of antibody (Product # MA1-088) at a concentration of 1 µg/mL overnight at room temperature. The plate was washed 3 times with ELISA Wash Buffer (Product # N503), and 100 µL of recombinant human IGF1 was added to wells in duplicate at 10, 5, 2.5, 1.25, 0.625, 0.312 and 0 ng/mL concentrations and the samples were incubated for 2 hours at room temperature. The plate was washed, then incubated with 100 µL per well of an IGF1 polyclonal antibody (Product # PA1-130), biotinylated using EZ-Link Sulfo-NHS-LC-Biotinylation Kit (Product # 21435). The biotinylated antibody was loaded at a concentration of 2.0 µg/mL (red line), 1.0 µg/mL (blue line), and 0.5 µg/mL (green line) for 1 hour at room temperature, followed by 100 µL per well of Ultra Streptavidin-HRP (Product # N504) at a dilution of 1:10,000 for 30 minutes at room temperature. Detection was performed by adding 100 µL of 1-Step Ultra TMB substrate (Product # 34028) per well and incubating for 20 minutes at room temperature in the dark. The plate was then stopped with 100 µL per well of 0.16M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.




**IGF1 Antibody (PA1-130) in ELISA**
Direct ELISA analysis of an anti-human IGF1 polyclonal antibody (Product # PA1-130) was performed by coating wells of a plate with recombinant IGF1 protein at a concentration of 2 µg/mL overnight at 4C. The plate was washed 3 times with ELISA Wash Buffer (Product # N503), and 100 µL of an IGF1 polyclonal antibody (Product # PA1-130) was added to wells in duplicate at 2000, 1000, 500, 250, 125, 62.5, 31.25, 15.6, 7.8, 3.9, 1.9, and 0 ng/mL concentrations and the samples were incubated for 2 hours at room temperature. The plate was washed, then incubated with 100 µL per well of an HRP-conjugated goat anti-rabbit IgG secondary antibody (Product # 31460) at a dilution of 1:10,000 for 1 hour at room temperature, and washed again with ELISA Wash Buffer. The plate was developed by incubating 100 µL per well of 1-Step Ultra TMB substrate (Product # 34028) per well and incubating for 10 minutes at room temperature in the dark. The reaction was stopped with 100 µL per well of 0.16M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.