## Product Information

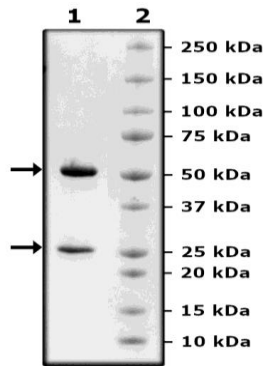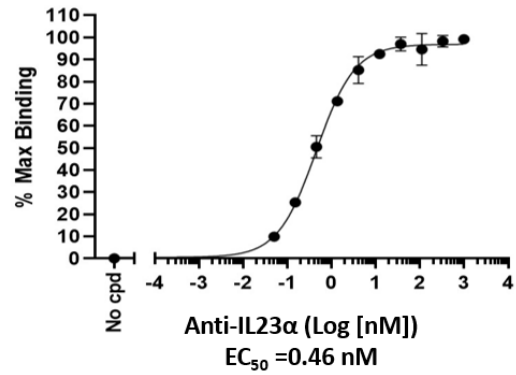| | |
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| **Description:** | This purified recombinant monoclonal antibody is a human anti-IL23α that selectively binds to the p19 subunit of heterodimeric IL-23, which is composed of p19 and IL-12 p40. The variable regions for this antibody are based on an FDA-approved drug Skyrizi® (risankizumab-rzaa), sold by AbbVie. This antibody has been tested for specific binding affinity to IL23α/IL12β antigen. |
| **Species:** | Human |
| **Concentration:** | 1.48 mg/ml |
| **Expression System:** | HEK293 |
| **Purity:** | ≥90% |
| **Format:** | Aqueous buffer solution. |
| **Formulated In:** | 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol |
| **MW:** | Heavy Chain: 49 kDa; Light Chain: 24 kDa |
| **Aggregation:** | <10% |
| **Stability:** | At least 6 months at -80°C. |
| **Storage:** | -80°C |
| **Instructions for Use:** | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| **Assay Conditions:** | Functional validation: The antibody was validated by measuring anti-IL23α binding to IL23α/IL12β antigen (Acro Biosystems #ILB-H52W5) in ELISA assay. The IL23α/IL12β protein was coated onto a 96-well plate overnight at 4°C (50 µl/well at a concentration of 6 µg/ml in PBS). The plate was washed 3 times with Immuno Buffer 1 (BPS Bioscience #79311) and blocked using 100 µl of Blocking Buffer 2 (BPS Bioscience #79728) for 1 hour at room temperature. After removing the blocking buffer, 50 µl/well of purified anti-IL23α antibody (BPS Bioscience #101453), serially diluted in Blocking Buffer 2, was added for 60 minutes at room temperature. After 3 more washes, the plate was incubated with Goat Anti-Human IgG Fc (HRP) (Abcam #ab97225), washed, and incubated with Colorimetric HRP substrate. The reaction was stopped, and absorbance was read at 450 nm. The Blank value was subtracted from all values. |
| **Applications:** | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |

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## Quality Control Data

### 4-20% SDS-PAGE Coomassie Staining



### IL23α/IL12β:Anti IL23α Activity



Anti-IL23α (Log [nM])
$EC_{50} = 0.46$ nM

## Quality Control Data

### Gel Filtration Curve

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