

**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

Lot Number: Lot Specific\*  
 Volume: Lot Specific\*  
 Concentration: Lot Specific\* (generally 4 to 11 mg/ml) \*  
 Total Protein: Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

<b>Catalog Number:</b>	<b>SIM0020</b>
<b>Clone:</b>	<b>Ustekinumab</b>
<b>Isotype:</b>	Human IgG1, $\kappa$
<b>Recommended Isotype Control(s):</b>	RecombiMAb human IgG1 (D265A) isotype control, anti-hen egg lysozyme
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 7.0 Dilution Buffer
<b>Mutations:</b>	K214R/E356D/M358L
<b>Immunogen:</b>	Human IL-12 p40
<b>Reported Applications:</b>	Functional assays
<b>Formulation:</b>	PBS, pH 7.0 Contains no stabilizers or preservatives
<b>Endotoxin:</b>	$\leq 0.5$ EU/mg ( $\leq 0.0005$ EU/ $\mu$ g) Determined by LAL gel clotting assay
<b>Purity:</b>	$\geq 95\%$ Determined by SDS-PAGE
<b>Sterility:</b>	0.2 $\mu$ m filtration
<b>Production:</b>	Purified from cell culture supernatant in an animal-free facility.
<b>Purification:</b>	Protein A
<b>Aggregation:</b>	$< 5\%$ Determined by SEC
<b>RRID:</b>	
<b>Molecular Weight:</b>	150 kDa

### Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

### Description

This non-therapeutic biosimilar antibody uses the same variable regions from the therapeutic antibody Ustekinumab making it ideal for research use. This Ustekinumab biosimilar reacts with human p40 also known as IL-12 $\beta$ . p40 is a 40 kDa subunit of IL-12 and IL-23. IL-12 is a heterodimeric cytokine composed of subunits IL-12 $\alpha$  p35 and IL-12 $\beta$  p40. The p40 subunit of IL-12 also combines with p19, a protein that shows no biological activity by itself, to form IL-23. IL-12 is secreted by activated monocytes, macrophages, and dendritic cells while IL-23 is secreted by activated dendritic cells and epithelial cells. IL-12 plays roles in T lymphocyte differentiation, IFN $\gamma$  production, and NK cell cytotoxicity. The C17.8 antibody has been shown to neutralize both IL-12 and IL-23 bioactivity. Ustekinumab is used for the treatment of Crohn's disease, plaque psoriasis, and psoriatic arthritis.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**  
It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

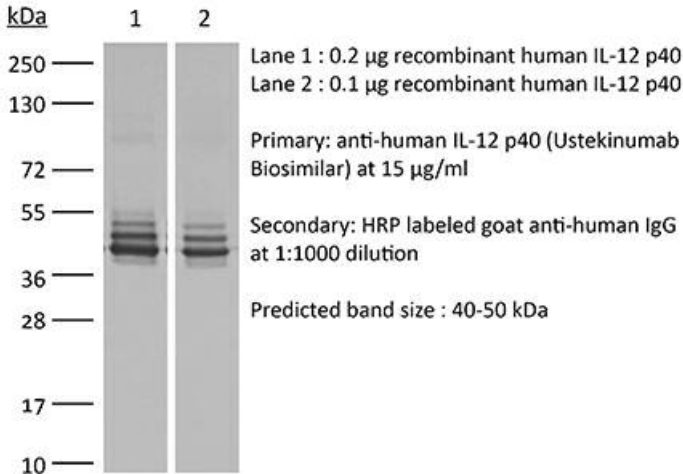
Application References

For a complete list of references, visit [https://bioxcell.com/sim0020?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/sim0020?bxcs=9k1b3a#tab_references) or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com).



Bio X Cell, LLC  
<https://bioxcell.com>  
+1-866-787-3444  
[customerservice@bioxcell.com](mailto:customerservice@bioxcell.com)

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