



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

Catalog Number:	BE0324
Clone:	XL313
Isotype:	Mouse IgG1, κ
Immunogen:	Synthetic RGD containing human collagen peptides
Reported Applications:	Western blot Immunofluorescence <i>in vivo</i> administration (see description)
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/μg) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 μM filtered
Production:	Purified from tissue culture supernatant in an animal free facility
Purification:	Protein G
RRID:	AB_2819051
Molecular Weight:	150 kDa

Description

The XL313 monoclonal antibody reacts with denatured human and mouse collagen type-I but not native collagen type-I. The antibody reacts with the RGD motif. Collagen is a fibrous multi-chain triple helical protein that exists in numerous forms. Collagen type-I is the most abundant collagen type in the extracellular matrix. Collagen type-I, type-III, collagen type-IV and collagen type-V have been shown to be associated with all pre-existing blood vessels *in vivo*. Denaturation of the native three-dimensional structure of collagen is thought to expose cryptic regulatory regions that control angiogenesis. The XL313 antibody has been shown to inhibit angiogenesis in chick embryos and enhance the anti-tumor activity of anti-PD-L1 therapy *in vivo*. XL313 administration has also been shown to inhibit Lewis lung carcinoma tumor growth in C57BL/6 mice (shown in US Patent No: 7588760B2).

Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**
All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxcell.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://bxcell.com/product/invivomab-anti-human-mouse-denatured-collagen-type-i-rgd-motif/#references> or scan the QR code below.

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