Technical Data Sheet

InVivoMAb anti-human/mouse denatured collagen type-I (RGD motif)

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

Catalog Number:	**BE0324**
Clone:	**XL313**
Isotype:	Mouse IgG1, κ
Immunogen:	Synthetic RGD containing human collagen peptides
Reported Applications:	Western blot Immunofluorescence *in vivo* 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 filtration
Production:	Purified from cell 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).

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/catalogsearch/result/?q=BE0324#tab_references or scan the QR code below.

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