

## Product datasheet for **BM2248**

### Collagen I (COL1A1) Mouse Monoclonal Antibody [Clone ID: BDI314]

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	BDI314
<b>Applications:</b>	ELISA, IHC
<b>Recommended Dilution:</b>	ELISA: Apparent binding constant from titration curves is approximately 0.1 nM. Antibody suitable for use in sandwich ELISA for specific determination of collagen I, employed as either a capture antibody or as a second, detecting antibody. Immunohistochemical staining of 10 µm thick cryostat sections fixed with acetone or ethanol. Staining is similar to that for polyclonal antibodies to interstitial collagen I. Suggested working concentration 10-20 µg/ml. Formaldehyde fixation is not recommended. Does not work with Western blots. Not suitable for use on paraffin embedded sections.
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Monoclonal
<b>Specificity:</b>	Both native and heat denatured human collagen type I. No cross reactivity with albumin fractions of human serum or albumins of other animal species. Less than 5% binding to collagens II and II in ELISA, RIA or Immunoblotting.
<b>Formulation:</b>	State: Azide Free State: Lyophilized.
<b>Reconstitution Method:</b>	Restore with 1 ml distilled water.
<b>Purification:</b>	Ammonium sulfate precipitation and chromatography on DEAE-cellulose
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store lyophilized product at 2-8°C. After reconstitution, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	collagen type I alpha 1



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**Database Link:** [Entrez Gene 1277 Human P02452](#)

**Background:** Collagens are highly conserved throughout evolution and are characterised by an uninterrupted "Glycine X Y" triplet repeat that is a necessary part of the triple helical structure. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for Platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor.

**Synonyms:** COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen

**Protein Families:** Druggable Genome

**Protein Pathways:** ECM-receptor interaction, Focal adhesion