

Anti-Type V Collagen (human, dog, sheep, kangaroo, pig, rabbit, bovine)

CAT. NO. CSI 006-01

OVERVIEW

Product Name	Anti-Type V Collagen (human, dog, sheep, kangaroo, pig, rabbit, bovine)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG2a/k	Clone	1E2-E4/Col5
Tested Applications	ELISA, WB, IHC		

SPECIFICITY

Specificity	CSI 006-01 is highly specific for type V collagen. It has been shown to have no cross-reactivity with type I, III and VI collagens by ELISA and immunoblotting. There is no evidence for cross-reactivity with other connective tissue proteins (laminin, fibronectin, elastin).		
Immunogen	Acid-digested pepsin soluble dog type V collagen	Gene ID	1289,397533, 100848491, 480684
Target	Type V collagen is a minor component of the connective tissue, although it is present in many different types of connective tissue. Patients with defects in the type V collagen (Ehlers-Danlos syndrome) have weakend connective tissue characterized by hyperstretchable joints and fragile, easily bruisable skin.		
Species Reactivity POSITIVE	Human, Pig, Bovine, Dog, Sheep (ovine), Kangaroo, Rabbit	Species Reactivity NEGATIVE	Mouse, Rat, Guinea Pig, Chicken

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

ELISA	CSI 006-01 can be used for detection of collagens by ELISA. CSI 006-01 binds poorly to Collagen V when tested in ELISA with Collagen V coated directly onto the microtiter well.
WB	In immunoblotting CSI 006-01 detects human type V collagen only in its native triple helix form.
IHC	CSI 006-01 has been used succesfully for immunohistology on paraffin embedded (1) and frozen unfixed sections of human (2), bovine (3) and dog (4) skin, on rabbit (1) and foetal bovine cornea (4), and of new dog tissue associated with a biomaterial implan

SCIENTIFIC REFERENCES

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CONDITIONS

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3. Werkmeister JA, Ramshaw JAM (1988) The use of immunohistology in studies on connective tissue organisation in hides and skins. *Das Leder* 39:145-151.
4. Werkmeister JA, Ramshaw JAM (1991) Monoclonal antibodies to type V collagen as markers for new tissue deposition associated with biomaterial implants. *J Histochem Cytochem* 39:1215-1220.
5. Werkmeister JA, Peters DE, Ramshaw JAM (1989) Development of monoclonal antibodies to collagens for assessing host-implant interactions. *J Biomed Mater Res* 23(A3):273-283.

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