

**Anti Type V Collagen
Mouse monoclonal antibody**Subclass: IgG_{2a}/k

PRODUCT NO.	CSI 006-01
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	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 weakened connective tissue characterized by hyperstretchable joints and fragile, easily bruisable skin.
IMMUNOGEN	Acid-digested pepsin soluble dog type V collagen
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). CSI 006-01 shows reactivity with human, dog, sheep, pig, kangaroo (1), rabbit (5) and calf (2) type V collagens by ELISA and immunoblotting. CSI 006-01 does not show reactivity with mouse, rat, guinea pig and chicken (1) type V collagens by ELISA and immunoblotting.
EPI TOPE SPECIFICITY	Not determined
REACTIVITY	CSI 006-01 can be used for detection of collagens by ELISA. CSI 006-01 has been used successfully for immunohistology on paraffin embedded (5) and frozen unfixed sections of human (4), bovine (2) and dog (1) skin, on rabbit (5) and foetal bovine cornea (1), and of new dog tissue associated with a biomaterial implant (3). If fixation of tissue is required, acetone or ethanol is recommended. CSI 006-01 binds poorly to Collagen V when tested in ELISA with Collagen V coated directly onto the microtiter well.
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum
FUSION PARTNER	NS1/1.Ag4.1.
IMMUNIZATION	Female SJL/J mice immunized i.p.
APPLICATION	

Method	Usability	Dilution guideline	References
ELISA	Yes	1:50	
Immunoblotting	Yes		
Immunohistochemistry	Yes		1, 2, 3, 4, 5

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at high concentration. Users should determine the optimal dilutions for their own purposes.

REFERENCES	<ol style="list-style-type: none"> 1. Werkmeister JA, Ramshaw JAM (1991) Monoclonal antibodies to type V collagen as markers for new tissue deposition associated with biomaterial implants. <i>J Histochem Cytochem</i> 39:1215-1220. 2. Werkmeister JA, Ramshaw JAM (1988) The use of immunohistology in studies on connective tissue organisation in hides and skins. <i>Das Leder</i> 39:145-151. 3. Werkmeister JA, Peters DE, Ramshaw JAM (1989) Development of monoclonal antibodies to collagens for assessing host-implant interactions. <i>J Biomed Mater Res</i> 23(A3):273-283. 4. Werkmeister JA, Ramshaw JAM (1989) Monoclonal antibodies to collagens for immunofluorescent examination of human skin. <i>Acta Derm Venereol</i> 69:399-402. 5. Pollock GA, McKelvie PA, McCarty DJ, White JF, Mallari PL, Taylor HR. (2003) In vivo effects of fluoroquinolones on rabbit corneas. <i>Clin Experiment Ophthalmol</i> 31:517-21.
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CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.