

Anti-Type V Collagen (human, dog, sheep, kangaroo, pig, rabbit, bovine)**Mouse monoclonal antibody**

Subclass: IgG2a/k

CAT. NO.

CSI 006-01

Clone: 1E2-E4/Col5

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
TESTED APPLICATIONS	ELISA, WB, IHC-P, IHC-F
SPECIES REACTIVITY (POSITIVE)	Human, dog, sheep, kangaroo, pig, rabbit, bovine
SPECIES REACTIVITY (NEGATIVE)	Mouse, rat, guinea pig, chicken
EPI TOPE SPECIFICITY	Not determined

PRESENTATION

Content:	Available in 400 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION

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 successfully 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 implant (5). If fixation of tissue is required, acetone or ethanol is recommended.

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 weakened connective tissue characterized by hyperstretchable joints and fragile, easily bruisable skin.

REFERENCES

1. Pollock GA, McKelvie PA, McCarty DJ, White JF, Mallari PL, Taylor HR. (2003) In vivo effects of fluoroquinolones on rabbit corneas. Clin Experiment Ophthalmol 31:517-21.
2. Werkmeister JA, Ramshaw JAM (1989) Monoclonal antibodies to collagens for immunofluorescent examination of human skin. Acta Derm Venereol 69:399-402.
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.

CONDITIONS

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