

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Collagen XXIII α 1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 50% cross-reactivity with recombinant human Collagen XXV α 1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 468642
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Collagen XXIII α 1 Glu111-Lys540 Accession # NP_775736
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Collagen XXIII α 1 (COL23A1) is an epithelial cell type 2 transmembrane glycoprotein with multiple collagen like domains in its extracellular region. Intracellular furin mediated cleavage of the 68 kDa molecule generates a 58 kDa shed fragment that forms disulfide linked trimers. An alternately spliced isoform consists of nearly 300 amino acids of the membrane proximal extracellular domain (ECD), flanked by substituted sequences. COL23A1 is upregulated in many transformed cell lines and serves as an indicator for tumor aggressiveness in prostate cancer. Within the ECD, human COL23A1 shares 89% aa sequence identity with mouse and rat COL23A1.

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