



PURIFIED HUMAN INTEGRIN alpha5beta1 PROTEIN

CATALOG NUMBER:	CC1027	QUANTITY:	50 µg
LOT NUMBER:		CONCENTRATION:	0.36 mg/mL
ALTERNATE NAMES:	VLA-5		
SPECIFICITY:	Integrin alpha5beta1 purified from smooth muscle and placental tissue under nondenaturing conditions by affinity chromatography on fibronectin-sepharose (Belkin, 1990). Human tissues have been tested negative for HIV-1, HIV-2, HTLV-1, HTLV-2, Treponema pallidum, Hepatitis B and Hepatitis C.		
APPLICATIONS:	Electrophoresis and Immunoblotting control. Function: Liposomes containing Integrin alpha5beta1 adhere to surfaces coated with fibronectin in an RGD-dependent fashion. <i>Optimal working dilutions must be determined by end user.</i>		
PURITY:	Nonreduced SDS-PAGE of 15 µg on 5-15% polyacrylamide slab gel and staining with Coomassie shows only two main bands at 120 kDa (alpha5beta1 subunit) and 145 kDa (alpha5 subunit). A weak band at 205 kDa is due to dimerization of the alpha5beta1 subunit (Belkin, 1996).		
CONTAMINANT(S):	None identified.		
PRESENTATION:	Purified protein in 25 mM Tris, pH 7.4, 150 mM NaCl, 100 mM Octyl-b-D-glucopyranoside, 1 mM MgCl ₂ , 0.2 mM CaCl ₂ with 0.1% sodium azide. This format of alpha5beta1 is appropriate for functional evaluations.		
STORAGE/HANDLING:	Maintain at -70°C in undiluted aliquots for up to 6 months after date of receipt. Thaw at 4°C. Avoid repeated freeze/thaw cycles.		
REFERENCES:	<ol style="list-style-type: none">1. Belkin, V.M. <i>et al.</i> (1990) <i>J. Cell Biol.</i> 111: 2159-2170.2. Belkin, V.M. <i>et al.</i> (1996) <i>Biochem. and Mol. Biol. Intl.</i> 40: 53-60.		

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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