CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	uPAR (D1 domain), Human, clone IIIB6		
Catalog number	HM2142-100UG		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Mouse IgG1	**Conjugate**	None
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #	1	1		1				1
Yes	●	●						●
No				●				
N.D.			●		●	●	●	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

General Information

Description

Monoclonal antibody IIIB6 recognizes the urokinase-type plasminogen activator receptor (uPAR or CD87), a GPI anchored highly glycosylated, single-chain polypeptide. CD87, a 45- to 60-kD protein, consists of three structurally homologous domains of approximately 90 amino acids, designated D1, D2, and D3, each containing a conserved arrangement of disulfide bonds and separated by short interdomain linker sequences. CD87 is expressed by monocytes/macrophages, neutrophils, endothelial, smooth muscle cells and epithelial cells. CD87 is overexpressed upon exposure to inflammatory mediators. The protein is also highly expressed by tumor cells and contributes to their invasiveness and metastatic potential. CD87 is a multiligand receptor that operates as a key element in pathophysiological processes involving cell migration and tissue remodelling during inflammation and cancer metastasis. CD87 binds with high affinity the Ser-proteinase urokinase-type plasminogen activator (uPA) which, upon binding catalyzes the conversion of plasminogen into plasmin which activates various matrix metalloproteinase leading to a high potential for pericellular proteolysis. CD87 functions also as an adhesion molecule by binding vitronectin, thus contributing to leukocytic adherence. High-affinity binding of CD87 to both uPA and vitronectin requires the presence of domain 1 (D1). Yet, CD87 participates in cell adherence and migration also through two other routes, a physical association and functional interaction with various integrins and via an intrinsic chemotactic activity associated to the D1-D2 linker sequence. Monoclonal antibody IIIB6 recognizes D1 of the urokinase-type plasminogen activator receptor (CD87). The antibody recognizes amino acid sequences 4-15 of the D1 domain. uPAR exists in various molecular forms; heavily glycosylated, a cleaved form, a soluble form and spliced forms. Monoclonal antibody IIIB6 reacts with all uPAR forms tested (glycosylated and non glycolsylated and full length and truncated versions) in Western and dot blot analyses but did not detect uPAR on intact, nonfixed cells.

Aliases

CD87

References

1. Luther, T et al; Epitope-mapped monoclonal antibodies as tools for functional and morphological analyses of the human urokinase receptor in tumor tissue. Am J Pathol 1997, *150*: 1231

Storage&stability

Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC	Date
Brenda Teunissen	02/12/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.