Datasheet for ABIN2191925

anti-PI3 antibody

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Overview

Quantity:	100 µg
Target:	PI3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PI3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoassay (IA)

Product Details

Clone:	TRAB2O
Sterility:	0.2 µm filtered

Target Details

Target:	PI3
Alternative Name:	Elafin/skalp (PI3 Products)
Background:	Elafin is an epithelial proteinase inhibitor also known under various other names such as Skin-derived Anti leukoproteinase (SKALP) and Elastase-Specific Inhibitor (ESI). Elafin belongs to the Trappin gene family and was given the systematic name Trappin-2. The Trappin family is defined by a N-terminal transglutaminase substrate domain and a C-terminal four disulphide core. Trappins have been suggested to play a role in the regulation of inflammation and in

Target Details

protection against tissue damage in stratified epithelia. Elafin is an inhibitor of leukocyte elastase and proteinase-3 and is a substrate for transglutaminases. The protein is constitutively expressed in various epithelia including hair follicles, oesophagus, vagina and oral cavity. Elafin is not present in normal human skin but is strongly induced during inflammation as in psoriasis and wound healing. Antibodies to Elafin can be used to evaluate the effects of treatment of psoriasis since its expression is significantly correlated with clinical scores. Antibodies to Elafin have also been succesfully used to study differentiation in squamous cell carcinoma of the head-and-neck region, oesophagus and skin. It is also shown that Elafin possesses antimicrobial activity against gram-positive and gram-negative bacteria. TRAB2O recognises all known Trappins via the GQDPVK epitope. TRAB2O shows strong reaction with human native full-length Elafin/SKALP and a weaker reaction with fully processed Elafin/SKALP (C-terminal 57 aa). For detection of fully processed Elafin/SKALP (C-terminal 57 aa) we advise to use HM2063. The antibody is cross reactive with Trappin family members of other species with GQDPVK epitope.

Application Details

Application Notes:	For immunohistology and Western blotting 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. For Western blotting it is recommended to use non-reducing conditions.
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.02 % sodium azide and 0.1 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.
Expiry Date:	12 months

Publications

Product cited in: Bax, Siersema, Haringsma, Kuipers, Vos, Van Dekken, Van Vliet, Kusters: "High-grade dysplasia in Barrett's esophagus is associated with increased expression of calgranulin A and B." in: **Scandinavian journal of gastroenterology**, Vol. 42, Issue 8, pp. 902-10, (2007) (PubMed).

There are more publications referencing this product on: Product page