

**MONOCLONAL ANTIBODY TO
HUMAN ELAFIN/SKALP
clone TRAB2F**



Catalog nr	HM2063 (lot number and expiry date are indicated on the label)
Description	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 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 successfully 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. TRAB2F is an Elafin/SKALP specific antibody which shows strong reaction with fully processed Elafin/SKALP (C-terminal 57 aa) and a weaker reaction with human native full-length Elafin/SKALP. The antibody can be used for purification of human native full-length Elafin/SKALP. For detection of human native full-length Elafin/SKALP we advise to use HM2062.
Species	Mouse IgG _{2b}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The antibody can be used for immuno assays and Western blotting. Furthermore the antibody is useful for immunohistology on paraffin sections, frozen sections are not useful.
Use	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.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for 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 with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Vandermeeren, M et al; Development and application of monoclonal antibodies against SKALP/elafin and other trappin family members. <i>Arch Dermatol Res</i> 2001, 293: 3432. Alkemade, J et al; Demonstration of skin-derived antileukoproteinase (SKALP) and its target enzyme human leukocyte elastase in squamous carcinoma. <i>J Pathol</i> 1994, 174: 1213. Bergen van, H et al; Expression of SKALP/elafin during wound healing in human skin. <i>Arch Dermatol Res</i> 1996, 288: 4584. Pfundt, R et al; Constitutive and inducible expression of SKALP/elafin provides anti-elastase defense in human epithelia. <i>J Clin Invest</i> 1996, 98: 13895. Schalkwijk, J et al; Localization of SKALP/elafin. <i>J Invest Dermatol</i> 1993, 100: 3906. Schalkwijk, J et al; The trappin gene family: proteins defined by an N-terminal transglutaminase substrate domain and a c-terminal four-disulphide core. <i>Biochem J</i> 1999, 340: 5697. Wiedow, O et al; Elafin: an elastase-specific inhibitor of human skin. <i>J Biol Chem</i> 1990, 265: 147918. Huh, WA et al; Dynamic alteration of human beta-defensin 2 localization from cytoplasm to intercellular space in psoriatic skin. <i>J Mol Med</i> 2002, 80: 678
Also available	HM2062 Monoclonal antibody against Human Elafin/SKALP, clone TRAB2O HP9025 Polyclonal antibody against Human Elafin/SKALP HC4011 Elafin/SKALP, 10 µg