

Product datasheet for **AP26020PU-N**

CCBE1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1-5 µg/ml. Immunofluorescence/Immunohistochemistry: 1-10 µg/ml.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) recombinant Human ccbe1 (Cys159-Leu251) derived from E. coli.
Specificity:	This antibody detects Human CCBE1. Other species not tested.
Formulation:	PBS, pH 7.2 State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen and calcium binding EGF domains 1
Database Link:	Entrez Gene 147372 Human Q6UXH8



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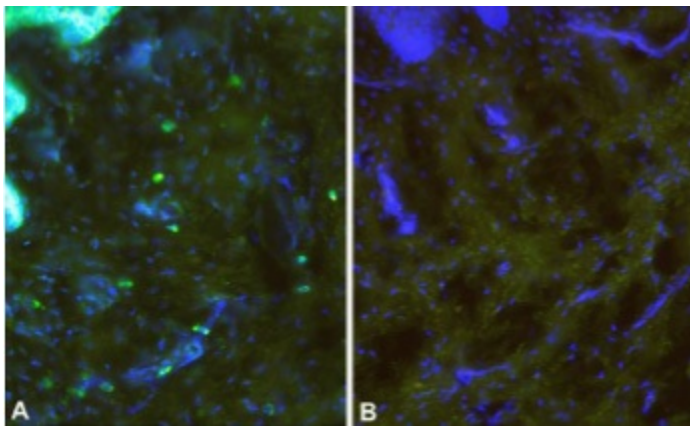
Background:

The lymphatic system comprises a vascular system separate from the cardiovascular system, essential for immune responses, fluid homeostasis and fat absorption. Lymphatic vessels develop in a complex process termed lymphangiogenesis that involves budding, migration and proliferation of lymphatic endothelial progenitor cells. A few genes, such as FLT4, FOXC2 and SOX18, are known to be critically involved in lymph vessel formation in humans. Lymphedema, lymphangiectasias, mental retardation and unusual facial characteristics define the autosomal recessive Hennekam syndrome. Homozygosity mapping identified a critical chromosomal region containing *ccbe1*, encoding Collagen and Calcium-Binding EGF-domain-1, a secreted protein which is required for embryonic lymphangiogenesis in zebrafish.

Ccbe1 is not expressed in endothelial cells of lymph vessels, and it may be a component of the extracellular matrix. In zebrafish, *ccbe1* expression was observed along the earliest migration routes of endothelial cells that sprout from the posterior cardinal vein and migrate circuitously before developing into lymphatic vessels. *ccbe1* might therefore be involved in guidance of these migrating cells.

Synonyms:

KIAA1983

Product images:

Immunofluorescence staining (green) of human foreskin (cryo-section of unfixed tissue) with anti human *ccbe1* (dilution 1/50) A) Note specific staining in epidermis (ep) and in scattered cells in the dermis. B) Negative control of a consecutive section. Nuclei counter-stained with Dapi (blue). Specimen provided by Prof. Dr. J. Wilting, Goettingen.