

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BVES in direct ELISAs
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BVES Met1-Asn36 Accession # Q8NE79
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

BVES (blood vessel epicardial substance; also Popeye 1) is a 58 kDa, glycoprotein member of the Popeye family of multispan transmembrane (TM) molecules. It is expressed on embryonic epicardial epithelium plus atrial myocytes and on adult skeletal and cardiac muscle. It serves as a component of the epithelial tight junction, dimerizing with itself and interacting with ZO-1. Human BVES is 360 amino acids (aa) in length. It contains an extracellular N-terminus of 48 aa, three TM domains (aa 49-113) and a large C-terminal cytoplasmic region (aa 114-360) that contains a Popeye domain (aa 123-266). Homodimerization occurs via aa 268-274. There is one potential splice variant that shows a premature truncation after Glu213. Over aa 1-36, human BVES is 72% aa identical to mouse BVES.

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