

DESCRIPTION

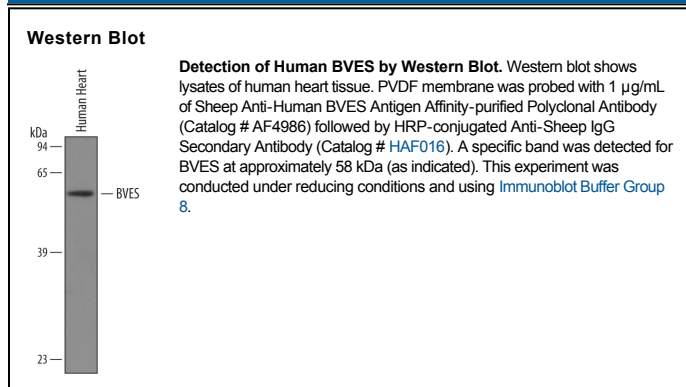
Species Reactivity	Human
Specificity	Detects human BVES in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BVES Met1-Asn36 Accession # Q8NE79
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.