SANTA CRUZ BIOTECHNOLOGY, INC.

Tie-2 (25-200): sc-4469 WB

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Receptor tyrosine kinases play key roles in signal transduction across cell surfaces in biological systems, including the vascular system. These receptors comprise a large and diverse family of catalytically related proteins that, on the basis of sequence and structural similarities, can be divided into several different evolutionary subfamilies. Recently, the cloning and characterization of Tie, a novel human endothelial cell surface receptor tyrosine kinase was reported. The extracellular domain of the predicted Tie protein product has an unusual multidomain structure consisting of a cluster of three epidermal growth factor homology motifs localized between two immunoglobulin-like loops, which are followed by three fibronectin type III repeats next to the transmembrane region. An additional member of this family, designated Tek, has more recently been identified. Tek and Tie-1 have been shown to be encoded by distinct genes and to represent members of a new class of receptor tyrosine kinases, while Tek and Tie-2 probably represent independent isolaters of the same gene.

REFERENCES

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SOURCE

Tie-2 (25-200) is expressed in *E. coli* as a 47 kDa tagged fusion protein corresponding to amino acids 25-200 of Tie-2 of human origin.

PRODUCT

Tie-2 (25-200) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Tie-2 (25-200) is suitable as a Western blotting control for sc-9026.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.