

# V5-Probe (E10): sc-81594

## BACKGROUND

Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are in common usage; such expression vectors are frequently used to encode hybrid fusion proteins consisting of a eukaryotic target protein and a specialized region designed to aid in the purification and visualization of the target protein. An example is the V5-Probe, which recognizes a small epitope, termed Pk, on the P/V proteins of the para-myxovirus simian virus 5 (SV5). This small peptide has proven useful in visualization and immunoaffinity purification of expressed fusion proteins. More than 20 recombinant proteins, some of which include transmembrane and secreted proteins, have been tagged with this epitope and detected via Western blot, immunoprecipitation and immunofluorescence.

## REFERENCES

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- Duplay, P., et al. 1984. Sequences of the malE gene and of its product, the maltose-binding protein of *Escherichia coli* K12. J. Biol. Chem. 259: 10606-10613.
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- Maina, C.V., et al. 1988. An *Escherichia coli* vector to express and purify foreign proteins by fusion to and separation from maltose-binding protein. Gene 74: 365-373.
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## SOURCE

V5-Probe (E10) is a mouse monoclonal antibody raised against V5 fusion protein.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

V5-Probe (E10) is recommended for detection of V5 fusion protein by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

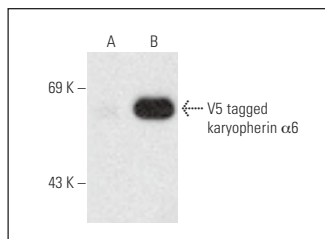
## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## DATA



V5-Probe (E10): sc-81594. Western blot analysis of karyopherin  $\alpha 6$  expression in non-transfected: sc-117752 (A) and human karyopherin  $\alpha 6$  transfected: sc-173792 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

- Hube, F., et al. 2011. Steroid receptor RNA activator protein binds to and counteracts SRA RNA-mediated activation of MyoD and muscle differentiation. Nucleic Acids Res. 39: 513-525.
- Pedersen, N.B., et al. 2014. Low density lipoprotein receptor class A repeats are O-glycosylated in linker regions. J. Biol. Chem. 289: 17312-17324.
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See **V5-Probe (H-9): sc-271926** for V5-Probe antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.