Qty: 100 µg/400 µL

Rabbit anti-VDUP-1

Catalog No. 40-3700

Lot No.

Rabbit anti-VDUP-1

FORM
This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.457

IMMUNOGEN
Synthetic peptide derived from the C-terminal region of human and rat VDUP-1 protein (Vitamin D3 Up-regulated Protein1, TRX-interacting protein, TXNIP)

SPECIFICITY
This antibody is specific for the VDUP-1 protein. On Western blots, it identifies a band at ~50 kDa.

REACTIVITY
Reactivity has been confirmed with cell lysates from SK-MEL37 human melanoma, and A375 human skin malignant melanoma, VDUP-1 transfected HEK293, HUVEC human unbilical vascular endothelial cell and BAEC bovine aortic endothelial cell. Based on amino acid sequence homology, this antibody should recognize rat mouse, dog, and orangutan.

Sample	Western Blotting	Immunopreci-pitation
Human	+++	ND
Bovine	+++	++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE
Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation: 10 µg/reaction
Western Blotting: 1-3 µg/mL

STORAGE
Store at 2-8°C for up to one month. Store at –20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

BACKGROUND

Vitamin D3 up-regulated protein 1 (VDUP-1), also known as TRX-interacting protein (TXNIP)[1, 2] or TRX -binding protein-2 (TBP-2)[3] is an endogenous inhibitor of thioredoxin (TRX). VDUP-1 is expressed more highly in nonmetastatic chromosome-6 containing (neo6/C8161) and in nonmetastatic melanoma than in parental (C8161) metastatic melanoma cells.[4]

REFERENCES

1. Ludwig DL, et al. *Gene* 269:103-112, 2001.
2. Schulze PC, et al. *Cir Res* 91:689-695, 2002.
3. Nishyama A, et al. *J Biol Chem* 274:21645-21650, 1999.
4. Goldberg SF, et al. *Cancer Res* 63:432-440, 2003.

RELATED PRODUCTS

Product	*Conjugate*	*Cat. No.*
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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