Qty: 100 µg/400 µL

Rabbit anti-DAB2IP

Catalog No. 487300

Lot No.

Rabbit anti-DAB2IP

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.689

IMMUNOGEN
Synthetic peptide derived from the C-terminal region of the human DAB2IP protein (Accession# NP_619723), which is identical to mouse and rat sequence.

SPECIFICITY
This antibody is specific for the DAB2IP (DAB2 interacting protein, AIP1, DIP1/2) protein. On Western blots, it identifies the target band at ~110 kDa.

REACTIVITY
Reactivity has been confirmed with human DU145, SK-N-MC and rat B49 cell lysates. Based on amino acid sequence homology, reactivity with mouse is expected.

Sample	Western Blotting	Immuno-precipitation	Immuno-cytochemistry
Human	+++	0	ND
Mouse	ND	ND	ND
Rat	+++	0	ND

(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.

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

DAB2IP is a Ras GTPase-activating protein (GAP) that acts as a tumor suppressor gene and is inactivated by methylation in prostate and breast cancers.[1]

Dab2IP interacted with the N-terminal domain of Disabled-2. Dab2IP stimulated the GTPase activity of Ras *in vitro* and *in vivo*. Increased expression of Dab2IP caused a dose-dependent inhibition of basal transcription from a serum response element in human prostate cancer cells. Dab2IP inhibited the growth of prostate cancer cells, and the inhibition required the interaction between Dab2IP and Disabled-2.[2] DAB2IP was also required for TNF-α-induced ASK1 activation, which involved DAB2IP unfolding, association of DAB2IP with ASK1, and facilitated release of 14-3-3 from ASK1, resulting in downstream activation of JNK.[3,4]

REFERENCES

1. Yano M, et al. *Int J Cancer* 113(1):59-66, 2005
2. Wang Z, et al. *J Biol Chem* 277(15):12622-12631, 2002.
3. Zhang R, et al. *J Clin Invest* 111(12):1933-1943, 2003.
4. Zhang H, et al. *J Biol Chem* 279(43):44955-44965, 2004.

RELATED PRODUCTS

Product	***Conjugate***	***Cat. No.***
Protein A	Sepharose 4B	10-1041
rec-Protein G	Sepharose 4B	10-1241
ZyMAX™ Goat anti-rabbit IgG	Unconjugated	81-6100
ZyMAX™ Goat anti-mouse IgG	Unconjugated	81-6500

Secondary antibody conjugates.

Conjugate	***Goat anti-rabbit IgG (H+L)***	***Goat anti-mouse IgG (H+L)***	***Ex/Em****	***Fluorescence similar to--***
Alexa Fluor® 488	A11008	A11001	495/519	FITC
Alexa Fluor® 555	A21428	A21422	555/565	Cy3
Alexa Fluor® 594	A11012	A11005	590/617	Texas Red
Alexa Fluor® 647	A21244	A21235	650/668	Cy5
HRP	81-6120	81-6520	NA**	NA
AP	81-6122	81-6522	NA	NA
Biotin	B2770	B2763	NA	NA

*Excitation/emission (nm); **Not applicable

For additional secondary antibody conjugates, visit www.invitrogen.com/antibodies

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WZ070504