

Product Information

ANTI-DRAK1

Developed in Rabbit, Affinity Isolated Antibody

Product Number **D1314**

Product Description

Anti-DRAK1 is developed in rabbit using a peptide corresponding to N-terminal amino acids 5-19 of human DRAK1 as immunogen.¹

Anti-DRAK1 specifically recognizes DRAK1 (50 kDa) by immunoblotting using A431 (epidermal carcinoma) or MOLT4 (CD4⁺ lymphoblastoid T cell) cell lysates. No cross-reactivity is seen with DRAK2, DAP or ZIP kinases. Species reactivity has been observed with human, mouse and rat.

Apoptosis is mediated by death domain containing adapter molecules and a caspase family of proteases. Certain serine/threonine protein kinases, such as ASK-1 and RIP, are mediators of apoptosis. Two novel serine/threonine kinases that induce apoptosis were recently identified and designated DRAK1 and DRAK2 for DAP kinase-related apoptosis-inducing protein kinases.¹ DRAKs contain an N-terminal kinase domain and a C-terminal regulation domain. Overexpression of DRAK1 induces apoptosis. DRAKs have high sequence homology to DAP and ZIP kinases, and they represent a novel family of serine/threonine kinases, which mediates apoptosis through their catalytic activities. DRAK1 is located in nucleus and the messenger RNA was ubiquitously expressed in human tissues.¹

Reagents

Anti-DRAK1 is supplied at 0.5 mg/ml of affinity isolated antibody in phosphate buffered saline, containing 0.02% sodium azide.

Storage/Stability

For continuous use, store at 2-8°C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling practices.

Product Profile

The recommended working concentration is 0.5 – 1 µg/ml (1:1,000 – 1:500 dilution) by immunoblotting using A431 or MOLT4 cell lysates. A band of approximately 50 kDa is detected.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Sanjo H, Kawai T, Akira S. DRAKs, novel serine/threonine kinases related to death-associated protein kinase that trigger apoptosis. *J. Biol. Chem.*, **273**, 29066-29071 (1998).

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