

## Product Information

### Anti-DRAK1

produced in rabbit, affinity isolated antibody

Catalog Number **D1314**

### Product Description

Anti-DRAK1 is produced in rabbit using as immunogen a peptide corresponding to N-terminal amino acids 5-19 of human DRAK1.<sup>1</sup>

Anti-DRAK1 specifically recognizes DRAK1 (50 kDa) by immunoblotting using A431 (epidermal carcinoma) or MOLT4 (CD4<sup>+</sup> 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.<sup>1</sup> DRAKs contain an N-terminal kinase domain and a C-terminal regulation domain. Over-expression 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.<sup>1</sup>

### Reagents

Supplied at ~0.5 mg/ml in phosphate buffered saline, containing 0.02% sodium azide.

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

Antibody can be stored at 2-8 °C for three months and at -20 °C for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

### Product Profile

**Immunoblotting:** the recommended working concentration is 0.5-1 µg/ml (1:1,000 – 1:500 dilution) using A431 or MOLT4 cell lysates. A band of ~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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