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## DRAK2 (33D7) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IHC-P	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 43	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O94768	<b>Entrez-Gene Id:</b> 9262
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:50  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

DRAK2 (33D7) Rabbit mAb detects endogenous levels of total DRAK2 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp315 of mouse DRAK2.

### Background

DRAK2 (DAP kinase related apoptosis inducing protein kinase 2) is a member of the novel DAP (death associated protein) pro-apoptotic kinase family (1). Overexpression of DRAK2 in NIH/3T3 cells induces morphological changes associated with apoptosis, which are likely to occur in a p53-dependent manner (1,2). DRAK2 is preferentially expressed in lymphoid tissues and regulates the TCR activation threshold during thymocyte selection (3). Indeed, T cells from DRAK2<sup>-/-</sup> mice exhibit enhanced sensitivity to T cell receptor-mediated stimulation and have a reduced requirement for co-stimulation (4).

### Background References

1. Kögel, D. et al. (2001) *Bioessays* 23, 352-358.
2. Sanjo, H. et al. (1998) *J. Biol. Chem.* 273, 29066-29071.
3. Friedrich, M.L. et al. (2005) *Int. Immunol.* 17, 1379-1390.
4. McGargill, M.A. et al. (2004) *Immunity* 21, 781-791.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

### Cross-Reactivity Key

**M:** Mouse

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