

Product Data Sheet

Anti-JunD Polyclonal Antibody

| Species Reactivity | | Details | |
|--------------------|--|------------------------|--|
| Murine (Ms) | | Catalog Number: | PA1-834 |
| | | Size: | 200 µg |
| | | Class: | Polyclonal |
| | | Type: | Antibody |
| | | Clone: | |
| | | Host / Isotype: | Rabbit / |
| | | Immunogen: | Synthetic peptide corresponding to residues G(329) C Q L L P Q H Q V P A Y(341) of mouse JunD. |
| | | Storage: | -20° C, Avoid Freeze/Thaw Cycles |
| | | Form: | 200 µg of lyophilized, purified rabbit IgG. Reconstitute with PBS. |

| Applications | Dilution |
|-------------------|----------|
| Western Blot (WB) | 10 µg/ml |

| Product Specific Information | General Information |
|---|---|
| PA1-834 detects JunD from mouse cells. | Cellular oncogenes, or proto-oncogenes, play pivotal roles in cellular communication pathways that regulate normal growth, development and differentiation. The cellular oncogene families fos and jun encode nuclear proteins that can function as transcription factors. The fos family of nuclear oncogenes encode cFos, FosB, (fos-related antigen) Fra1, and Fra2. |
| PA1-834 has been successfully used in Western blot procedures. By Western blot, this antibody detects proteins from ~37-41 kDa representing JunD from both un-induced and induced murine NIH 3T3 cells. | Fos and Jun dimerize to form Activator Protein-1 (AP-1), a transcriptional factor that binds to the 12-O-tetradecanoylphorbol 13-acetate (TPA) response element (TRE) of several cellular and viral genes including human collagenase, metallothionein IIa, stromelysin, interleukin 2, SV40 and polyoma. Fos and Jun contain the 'leucine-zipper' motif that allows for dimerization and an adjacent basic domain required for biological activity. The functionally active form of Fos is in a heterodimer with a member of the Jun family. While Jun family members can form functional homodimers, studies indicate that Fos family members do not self-associate and therefore do not bind DNA on their own. The various dimers differ in their ability to transactivate AP-1 dependent genes. |
| The PA1-834 immunogen is a synthetic peptide corresponding to residues G(329) C Q L L P Q H Q V P A Y(341) of mouse JunD. This sequence is completely conserved between mouse, human and rat. | |

| References: |
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| PNAS Vol 101, No 12, 4222-4227, Mar 2004 |
| Critical Reviews in Eukaryotic Gene Expression, 4(1): 55-116, 1994. |
| Biochimica et Biophysica Acta, 1072: 129-157, 1991. |

This product is for In Vitro experimental use only

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