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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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DAP12. Rabbit Polyclonal Antibody

TYRO protein tyrosine kinase-binding protein; DNAX-activation protein 12; Killer-activating receptor-associated protein; KARAP; TYROBP

BACKGROUND

DAP12 is a transmembrane adaptor protein that is non-covalently associated with several cell surface receptors on natural killer (NK), myeloid, and presumably neuronal cells (1,2). DAP12 contains an ITAM domain that preferentially recruits the protein tyrosine kinase Syk to initiate signal transduction (3). Deficiency of DAP12 results in reduced antigen presentation function by myeloid cells and defects in function of certain NK cell receptors in mice (4,5), as well as presenile dementia and bone cysts in humans (6).

ORDERING INFORMATION

CATALOG NUMBER
X1588P

SIZE
100 µg
FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
See vial for concentration

ISOTYPE

APPLICATIONS
Western Blot, Immunoprecipitation

SPECIES REACTIVITY
Human, Mouse

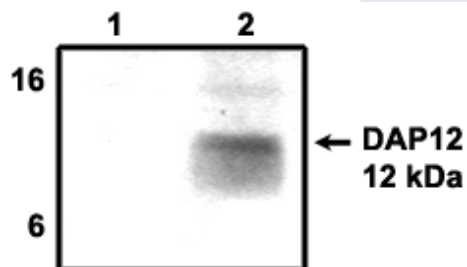
ACCESSION NUMBER

Human O43914
Mouse O54885

IMMUNOGEN

Recombinant DAP12 protein

Immunoprecipitation using DAP12 antibody on MHC class I (1) and NKp44 (2) positive cells.



POSITIVE CONTROL/TISSUE EXPRESSION

NKp44 positive cells

COMMENTS

Antibody can be used for immunoprecipitation (2-4 µg/mg of protein lysate). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Lanier, L.L. & Bakker, A.B. 'The ITAM-bearing transmembrane adaptor DAP12 in lymphoid and myeloid cell function.' Immunol. Today 2000, 21:611-614
2. Campbell, K.S. & Colonna, M. 'DAP12: a key accessory protein for relaying signals by natural killer cell receptors.' Intl J Biochem Cell Biol 1999, 31:631-636
3. McVicar, D.W., et al. 'DAP12-mediated signal transduction in natural killer cells. A dominant role for the Syk protein-tyrosine kinase.' J Biol Chem 1998, 273:32934-32942
4. Bakker, A.B., et al. 'DAP12-deficient mice fail to develop autoimmunity due to impaired antigen priming.' Immunity 2000, 13:345-353
5. Tomasello E., et al. 'Combined natural killer cell and dendritic cell functional deficiency in KARAP/DAP12 loss of function mutant mice.' Immunity 2000, 13:355-363
6. Paloneva, J., et al. 'Loss-of-function mutations in TYROBP (DAP12) result in presenile dementia with bone cysts.' Nature Genetics 2000, 25:357-361
7. Zou, Wei. et al., 'DAP12 Couples c-Fms Activation to the Osteoclast Cytoskeleton by Recruitment of Syk'. Molecular Cell, Aug 8, 2008, Vol 31 (3) 422-431. WB Using X1588P
8. Campbell K.S. et al. 'NKp44 Triggers NK Cell Activation through DAP12 Association That Is Not Influenced by a Putative Cytoplasmic Inhibitory Sequence'. Journal of Immunology, 2004 Vol 172

PRODUCT SPECIFIC REFERENCES

1. Zou, W., et al, 'DAP12 Couples c-Fms activation to the osteoclast cytoskeleton by recruitment of Syk' Molecular Cell 2008, 31, 3, 422-431