Product Datasheet

DAP12 Rabbit mAb

Catalog No: #49944

Package Size: #49944-1 50ul #49944-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

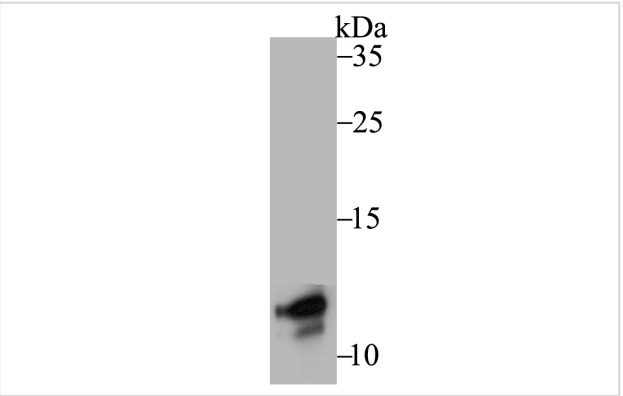
Description

Product Name	DAP12 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JG38-70
Purification	ProA affinity purified
Applications	WB,IHC,FC
Species Reactivity	Human
Immunogen Description	Synthetic peptide within human DAP12 aa 60-100.
Conjugates	Unconjugated
Other Names	DAP 12 antibody DAP12 antibody DNAX activation protein 12 antibody DNAX-activation protein 12 antibody KAR-associated protein antibody KARAP antibody Killer activating receptor associated protein antibody Killer-activating receptor-associated protein antibody PLOSL antibody TYOBP_HUMAN antibody TYRO protein tyrosine kinase binding protein antibody TYRO protein tyrosine kinase-binding protein antibody TYROBP antibody
Accession No.	Swiss-Prot#:O43914
Calculated MW	12 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

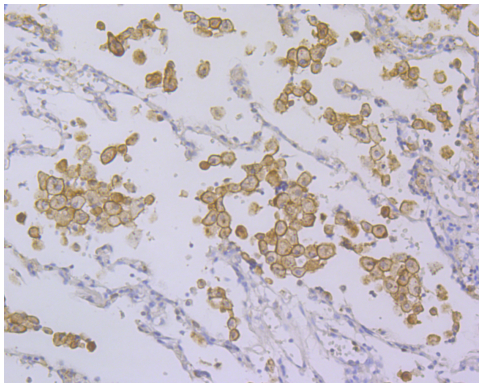
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200FC: 1:50-1:100

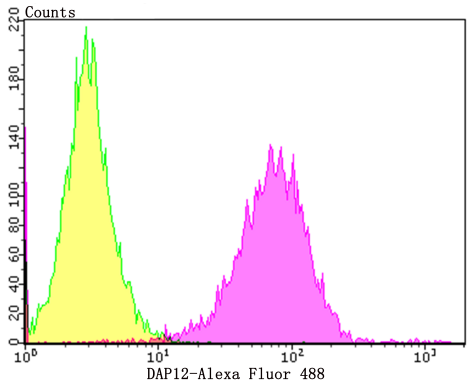
Images



Western blot analysis of DAP12 on THP-1 cell using anti-DAP12 antibody at 1/500 dilution.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-DAP12 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of K562 cells with DAP12 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Natural killer (NK) cells are regulated by stimulatory and inhibitory signals from a variety of receptors. Three main receptor families are responsible for NK cells recognition of MHC I molecules, including Ly-49, CD94/NKG2 and KIR (killer-cell inhibitory receptor). DAP12 is a phosphoprotein that is involved in the activation of NK cells. This protein interacts with membrane glycoproteins of the KIR family, resulting in cellular activation. DAP12 also binds to CD94/NKG2C, an activating NK cell receptor belonging to the C-type lectin superfamily. Additional proteins that bind to DAP12 include Ly-49D and Ly-49H, which associate with DAP12 in the plasma membrane. Phosphorylated DAP12 binds to ZAP-70 and Syk, suggesting that the activation pathway may be similar to that of the T and B cell antigen receptors.

References

1. Paloneva J et al. Loss-of-function mutations in TYROBP (DAP12) result in a presenile dementia with bone cysts. Nat Genet 25:357-361 (2000). 2. Kondo T et al. Heterogeneity of presenile dementia with bone cysts (Nasu-Hakola disease): three genetic forms. Neurology 59:1105-1107 (2002).

Published Papers

Jingsheng Cai;Zheng Liu;Shaoyi Chen;Jingwei Zhang;Haoran Li;Xun Wang;Feng Yang;Shaodong Wang;Xiao Li;Yun Li;Kezhong Chen;Jun Wang;Ming Sun;Mantang Qiu el at., Engineered circular RNA-based DLL3-targeted CAR-T therapy for small cell lung cancer., , (2025)

PMID:40075480

Note: This product is for in vitro research use only and is not intended for use in humans or animals.