

# CD19 Polyclonal Antibody

Catalog # AP73763

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, E
<b>Primary Accession</b>	<a href="#">P15391</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	61128

## Additional Information

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<b>Gene ID</b>	930
<b>Other Names</b>	CD19; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; Differentiation antigen CD19; T-cell surface antigen Leu-12; CD19
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IHC-P--Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IF--1:50~200 FC--1:10~50 E--N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	CD19
<b>Function</b>	Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes (PubMed: <a href="#">29523808</a> ). Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed: <a href="#">1373518</a> , PubMed: <a href="#">16672701</a> , PubMed: <a href="#">2463100</a> ). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca <sup>2+</sup> stores (PubMed: <a href="#">12387743</a> , PubMed: <a href="#">16672701</a> , PubMed: <a href="#">9317126</a> , PubMed: <a href="#">9382888</a> ). Is not required for early steps during B cell differentiation in the blood marrow (PubMed: <a href="#">9317126</a> ). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed: <a href="#">1373518</a> , PubMed: <a href="#">2463100</a> ). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed: <a href="#">12387743</a> , PubMed: <a href="#">16672701</a> , PubMed: <a href="#">9317126</a> ).

## Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft {ECO:0000250|UniProtKB:P25918}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P25918}

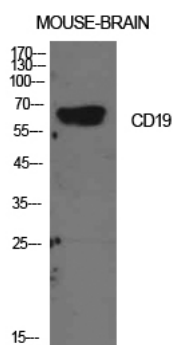
## Tissue Location

Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100). Detected on blood B cells (at protein level) (PubMed:16672701, PubMed:2463100)

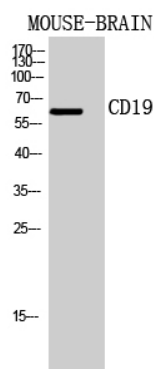
## Background

Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B- cell responses to antigens (PubMed:2463100, PubMed:1373518, PubMed:16672701). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:9382888, PubMed:9317126, PubMed:12387743, PubMed:16672701). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:2463100, PubMed:1373518). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:9317126, PubMed:12387743, PubMed:16672701).

## Images

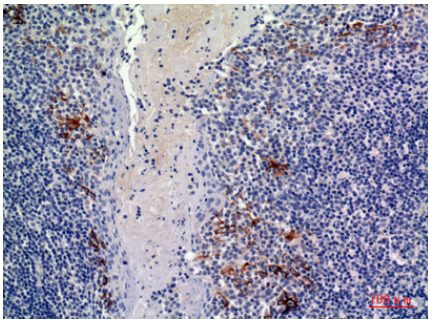


Western Blot analysis of mouse brain cells using CD19 Polyclonal Antibody. Antibody was diluted at 1:2000. Secondary antibody was diluted at 1:20000

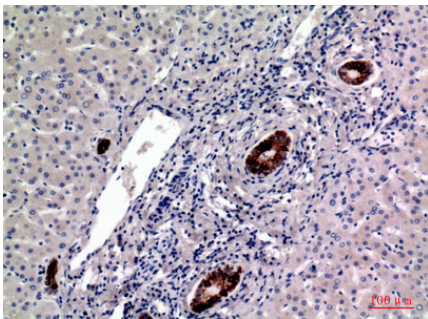
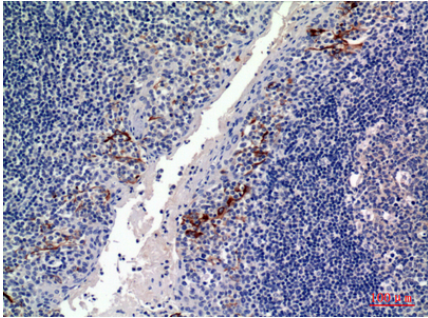


Western Blot analysis of MOUSE-BRAIN cells using CD19 Polyclonal Antibody diluted at 1 : 2000. Secondary antibody was diluted at 1:20000

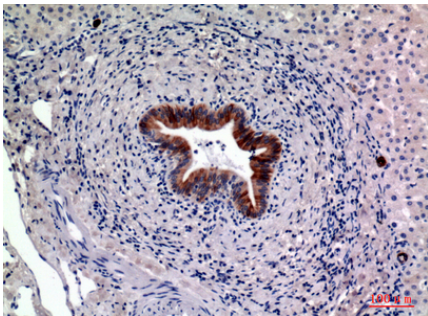
Immunohistochemical analysis of paraffin-embedded human-tonsils, antibody was diluted at 1:100



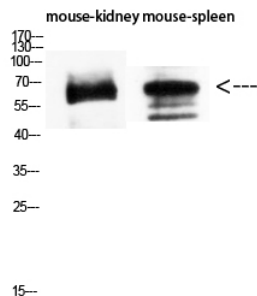
Immunohistochemical analysis of paraffin-embedded human-tonsils, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

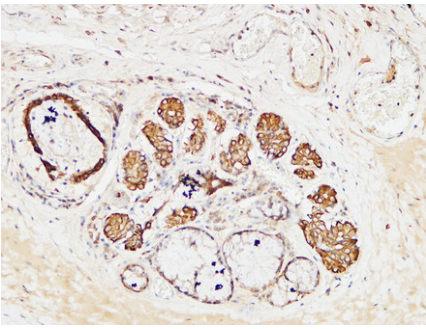


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

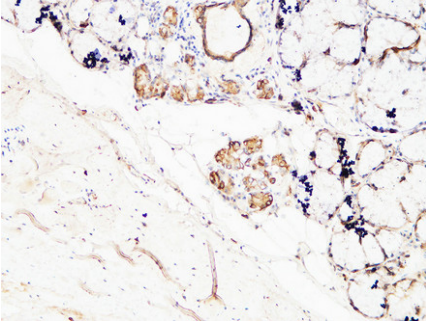


Western Blot analysis of mouse-kidney mouse-spleen using CD19 Polyclonal Antibody diluted at 1:1500. Secondary antibody was diluted at 1:20000

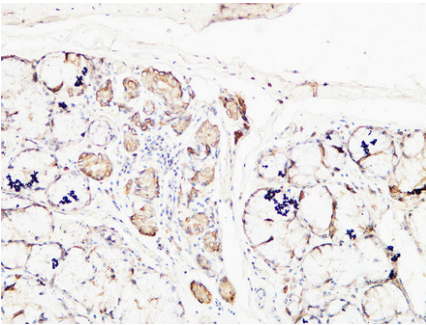
Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



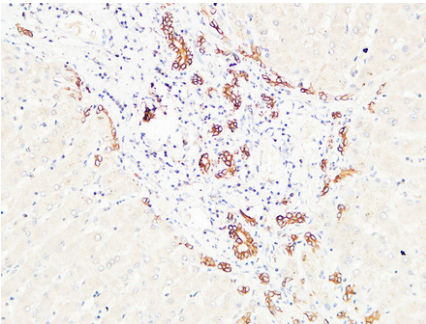
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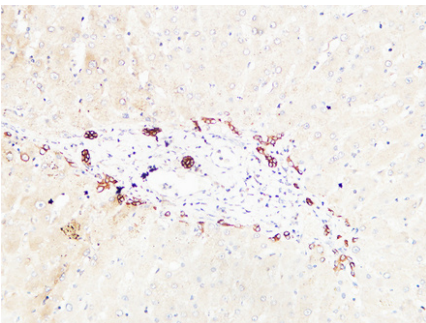
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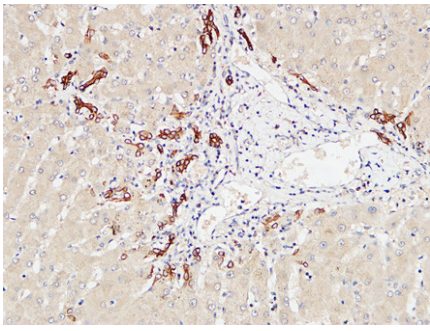
Immunohistochemical analysis of paraffin-embedded Human liver. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human liver. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human liver. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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