

Mouse Anti-CD68 antibody

SLM-33056M

Product Name CD68

Chinese Name CD68 单克隆抗体

Alias CD 68; CD68 antigen; CD68 molecule; DKFZp686M18236; GP110; Macrophage antigen CD68 (microsialin); macrosialin; SCARD1; Scavenger receptor class D member 1; macrosialin isoform A precursor; CD68_MOUSE; Macrosialin; Gp110; scavenger receptor class D, member 1; macrophage antigen CD68; LAMP4.

Research Area immunology Cell Surface Molecule

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 8F3

React Species Human,Rat

Applications IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 37kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human CD68 1-100/354aa

Lsotype IgG

Purification affinity purified by Protein G

Buffer Solution Human,Rat1M TBS(pH7.4) with 1% BSA, Human,Rat3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



PubMed

[PubMed](#)

This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008].

Function:

Could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells.

Subcellular Location:

Isoform Short: Cell membrane; Single-pass type I membrane protein. Isoform Long: Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein.

Product Detail

Tissue Specificity:

Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.

Similarity:

Belongs to the LAMP family.

SWISS:

P34810

Gene ID:

968

Database links:

[Entrez Gene: 968](#) Human

[Entrez Gene: 12514](#) Mouse

[Omim: 153634](#) Human

[SwissProt: P34810](#) Human

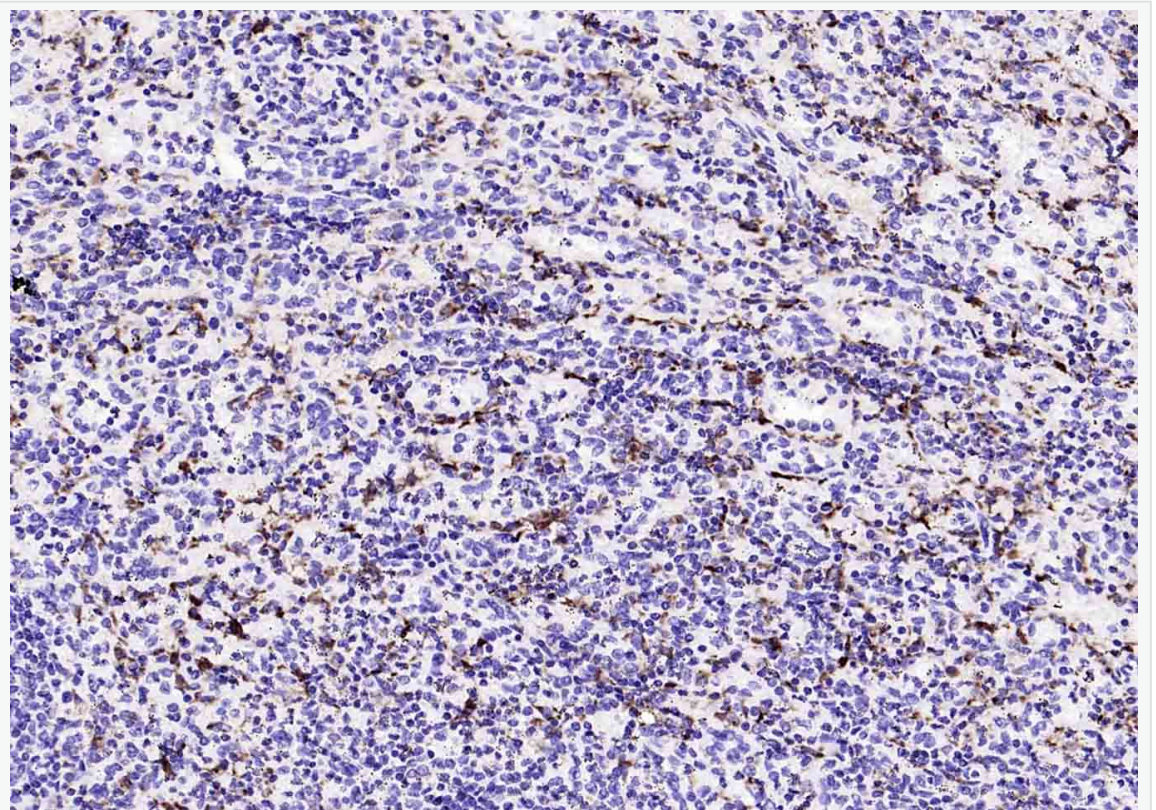
[SwissProt: P31996](#) Mouse

[Unigene: 647419](#) Human

[Unigene: 15819](#) Mouse

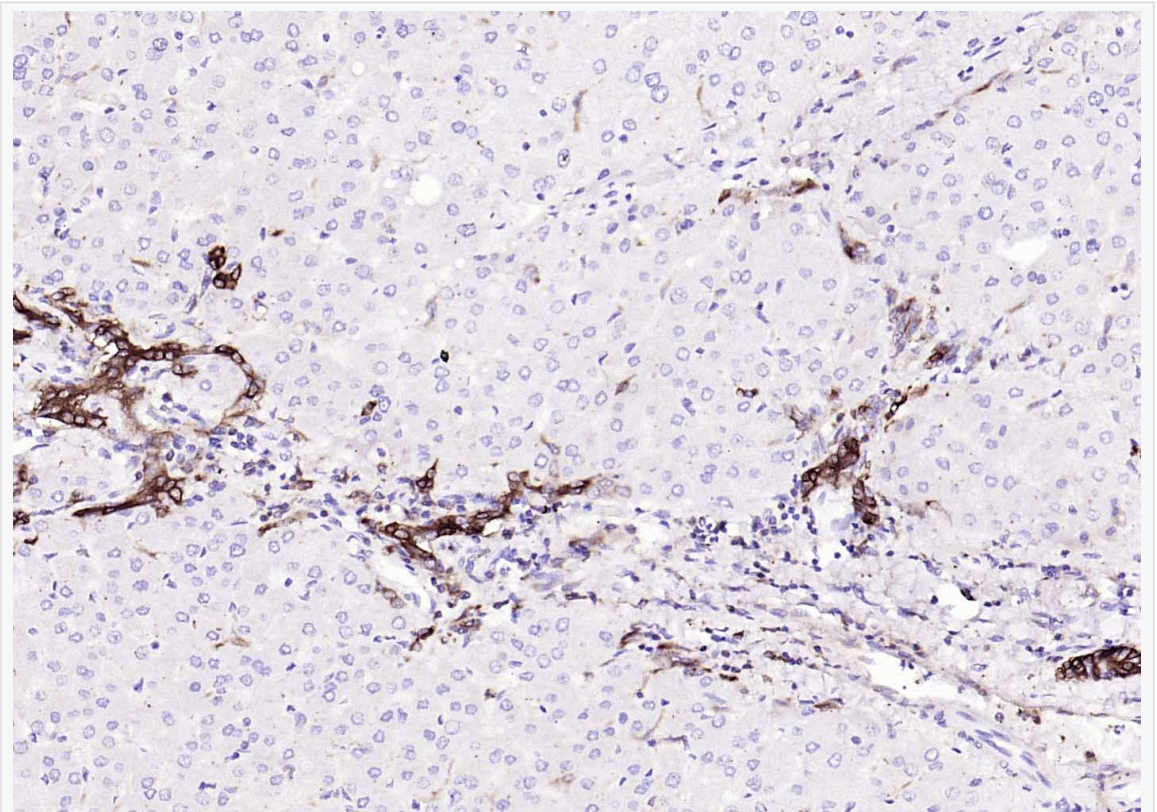
CD68 为巨噬细胞抗原又称酸性溶霉菌 glycoprotein，表达在单核、巨嗜、粒细胞和一些梭形细胞呈阳性表达。C 该抗体对于鉴定组织切片中的巨噬细胞具有重要作用。它能够鉴定多种组织中的巨噬细胞，包括脾脏红髓、肠道固有层、肺泡、骨髓中的枯否细胞和巨噬细胞。也能够识别骨髓前体细胞，外周血粒细胞以及浆细胞样 T 细胞。

**Product
Picture**



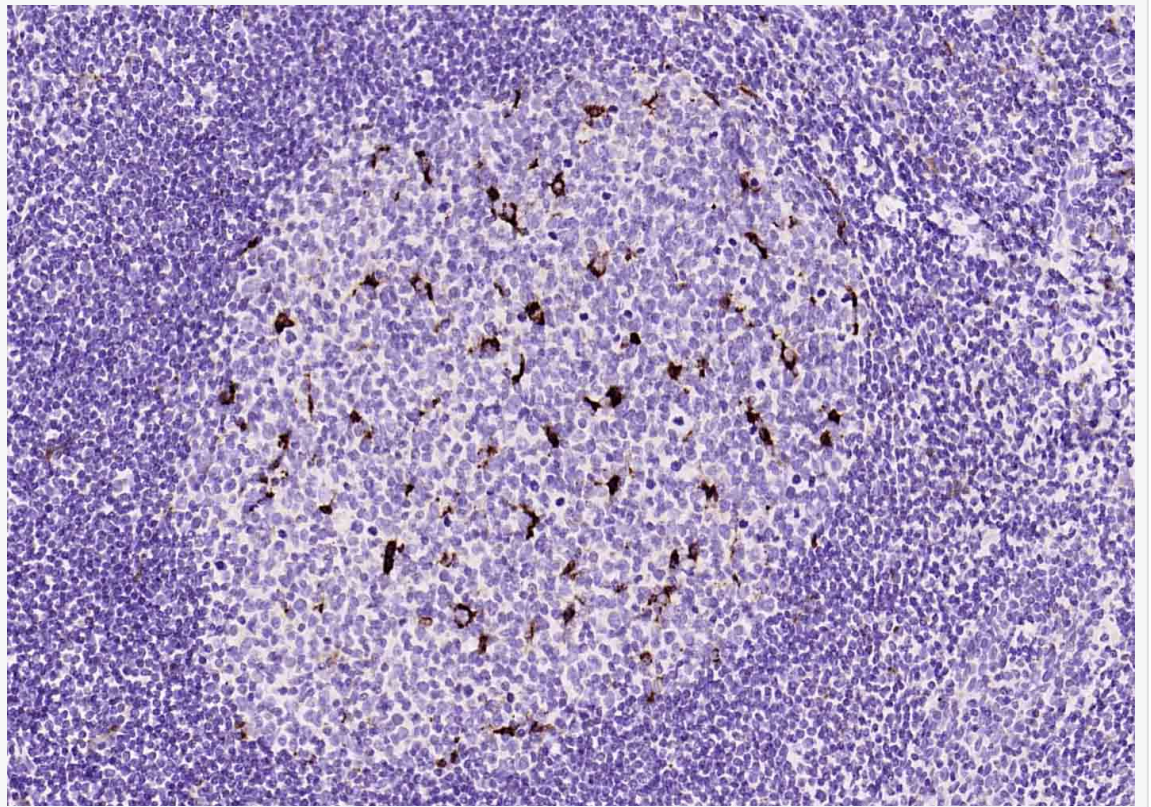
Paraformaldehyde-fixed, paraffin embedded (human spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by

3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (SLM-33056M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

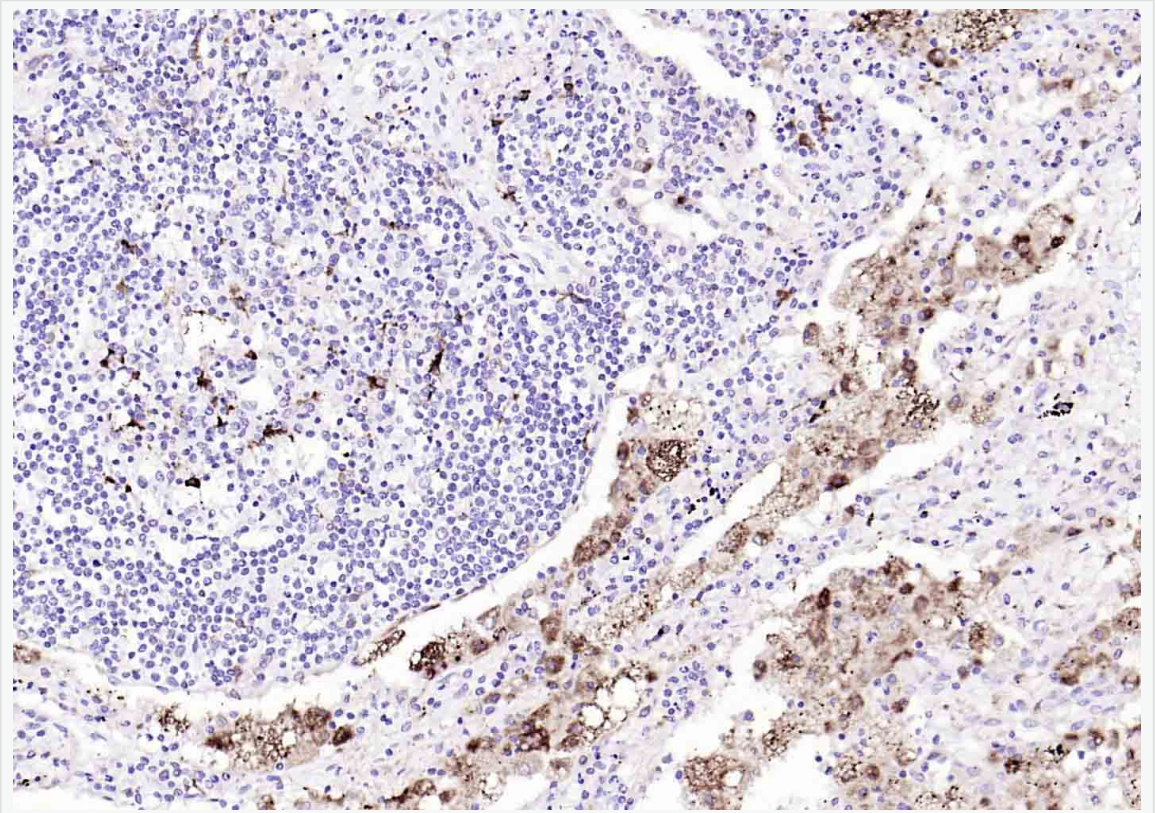


Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (SLM-33056M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024)

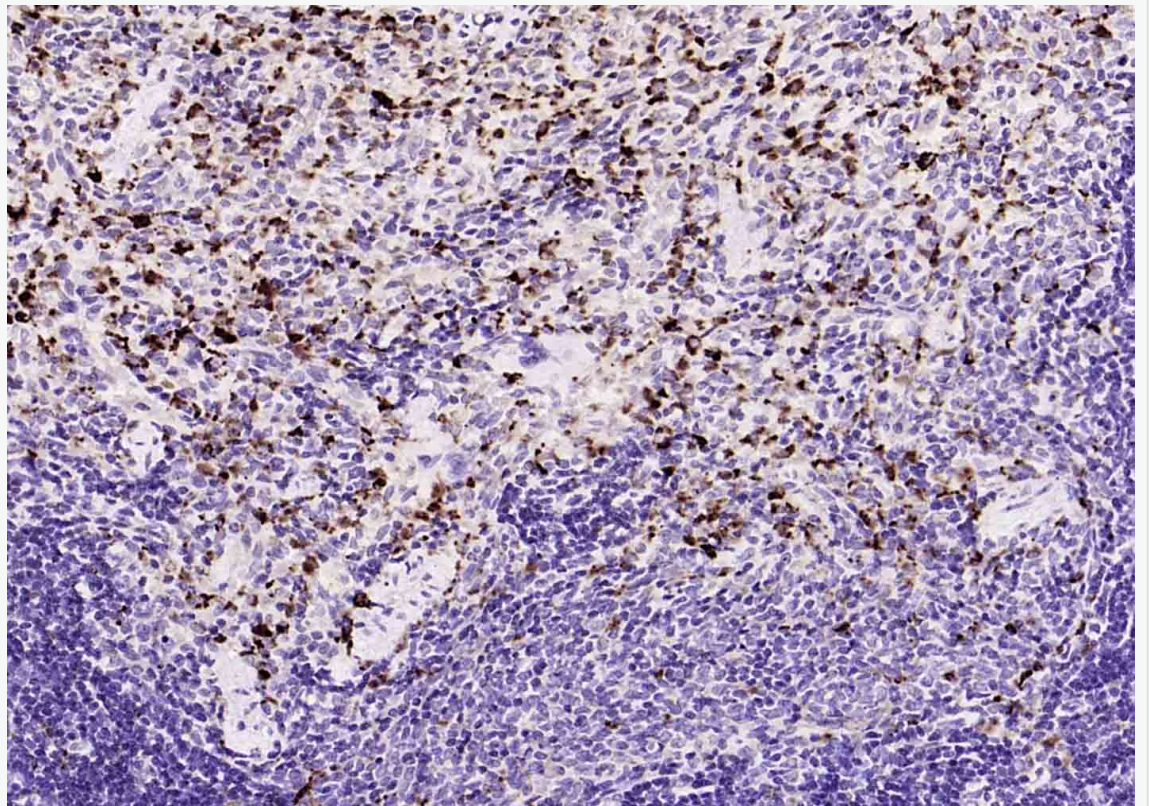
instructions and DAB staining.



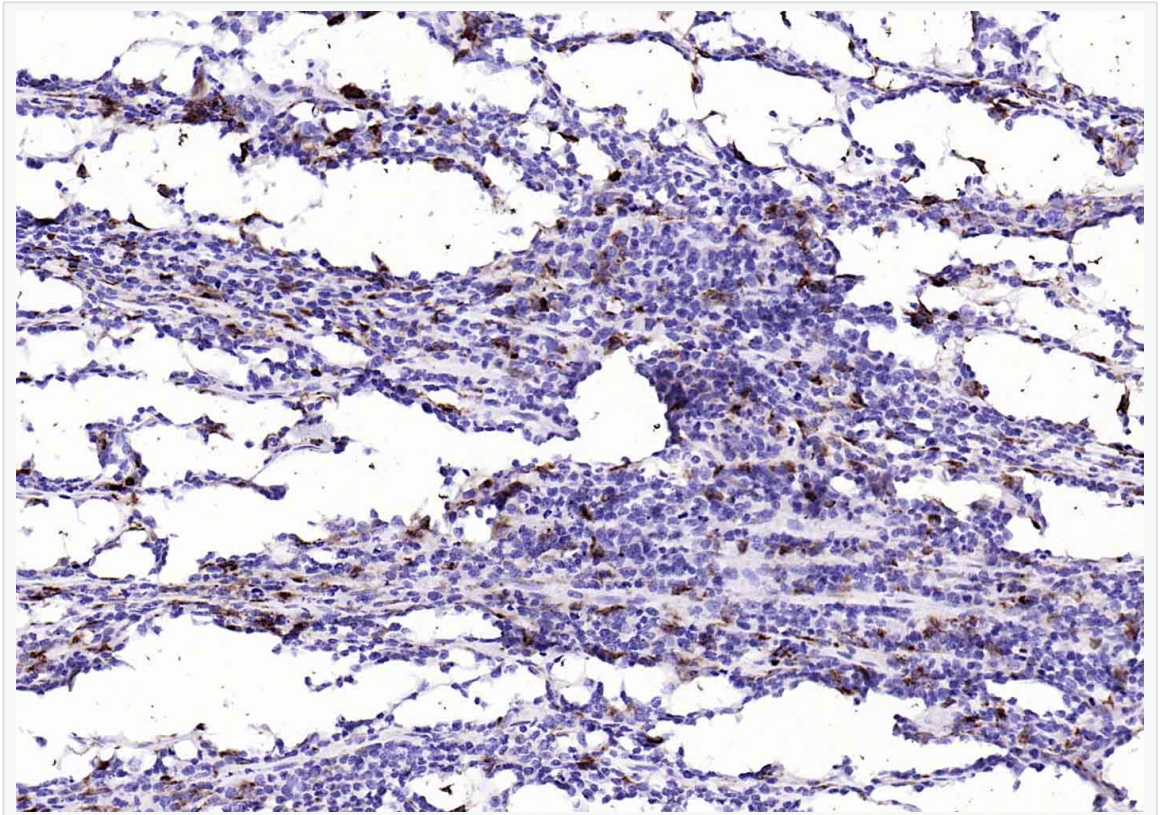
Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (SLM-33056M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (SLM-33056M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody, Unconjugated (SLM-33056M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human diffuse large B-cell lymphoma);
Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block
endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer
(normal goat serum) at 37°C for 30min; Incubation with (CD68) Monoclonal Antibody,
Unconjugated (SLM-33056M) at 1:200 overnight at 4°C, followed by operating
according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.