

Rabbit Anti-Factor VIII B chain antibody

SL10397R

Product Name Factor VIII B chain

Chinese Name 凝血因子 8/第八凝血因子/第八因子相关抗原抗体

Alias coagulation factor VIII; Ahf; Antihemophilic factor; Coagulation factor VIII; Coagulation factor VIII associated protein b; Coagulation factor VIII isoform b; Coagulation factor VIII procoagulant component; Coagulation factor VIIIc; Dna segment on chromosome x unique 1253 expressed sequence; Dxs1253e; F8; F8 protein; F8b; F8c; Factor VIII F8b; Factor VIII; FVIII; Hema coagulation factor VIIIc procoagulant component; Hemophilia a; Hemophilia classic; OTTHUMP00000061446; Procoagulant component; FVIII-Ag; Factor VIIIa heavy chain, 200 kDa isoform; Factor VIIIa heavy chain, 92 kDa isoform; Factor VIII B chain; AHF; DXS1253E; F8B; F8C; FVIII; HEMA; FA8_HUMAN.

Research Area Tumour Cardiovascular immunology Neurobiology

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 138kDa

Cellular localization Extracellular matrix Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Factor VIII B chain: 1101-1200/2351

Lsotype IgG

Purification affinity purified by Protein A

Buffer 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Solution****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 coagulation factor VIII, which participates in the intrinsic pathway of blood coagulation; factor VIII is a cofactor for factor IXa which, in the presence of Ca²⁺ and phospholipids, converts factor X to the activated form Xa. This gene produces two alternatively spliced transcripts. Transcript variant 1 encodes a large glycoprotein, isoform a, which circulates in plasma and associates with von Willebrand factor in a noncovalent complex. This protein undergoes multiple cleavage events. Transcript variant 2 encodes a putative small protein, isoform b, which consists primarily of the phospholipid binding domain of factor VIIIc. This binding domain is essential for coagulant activity. Defects in this gene results in hemophilia A, a common recessive X-linked coagulation disorder. [provided by RefSeq, Jul 2008].

Function:

Factor VIII, along with calcium and phospholipid, acts as a cofactor for factor IXa when it converts factor X to the activated form, factor Xa.

Subunit:

Interacts with vWF. vWF binding is essential for the stabilization of F8 in circulation.

**Product
Detail****Subcellular Location:**

Secreted, extracellular space.

Post-translational modifications:

Sulfation on Tyr-1699 is essential for binding vWF.

DISEASE:

Hemophilia A (HEMA) [MIM:306700]: A disorder of blood coagulation characterized by a permanent tendency to hemorrhage. About 50% of patients have severe hemophilia resulting in frequent spontaneous bleeding into joints, muscles and internal organs. Less severe forms are characterized by bleeding after trauma or surgery. Note=The disease is caused by mutations affecting the gene represented in this entry. Of particular interest for the understanding of the function of F8 is the category of CRM (cross-reacting material) positive patients (approximately 5%) that have considerable amount of F8 in their plasma (at least 30% of normal), but the protein is non-functional; i.e. the F8 activity is much less than the plasma protein level. CRM-reduced is another category of patients in which the F8C antigen and activity are reduced to approximately the same level. Most mutations are CRM negative, and probably affect the folding and stability of the protein.

Similarity:

Belongs to the multicopper oxidase family.
Contains 3 F5/8 type A domains.
Contains 2 F5/8 type C domains.
Contains 6 plastocyanin-like domains.

SWISS:
P00451

Gene ID:
2157

Database links:

[Entrez Gene: 403875](#) Dog

[Entrez Gene: 2157](#) Human

[Entrez Gene: 14069](#) Mouse

[Entrez Gene: 397339](#) Pig

[Omim: 300841](#) Human

[SwissProt: O18806](#) Dog

[SwissProt: P00451](#) Human

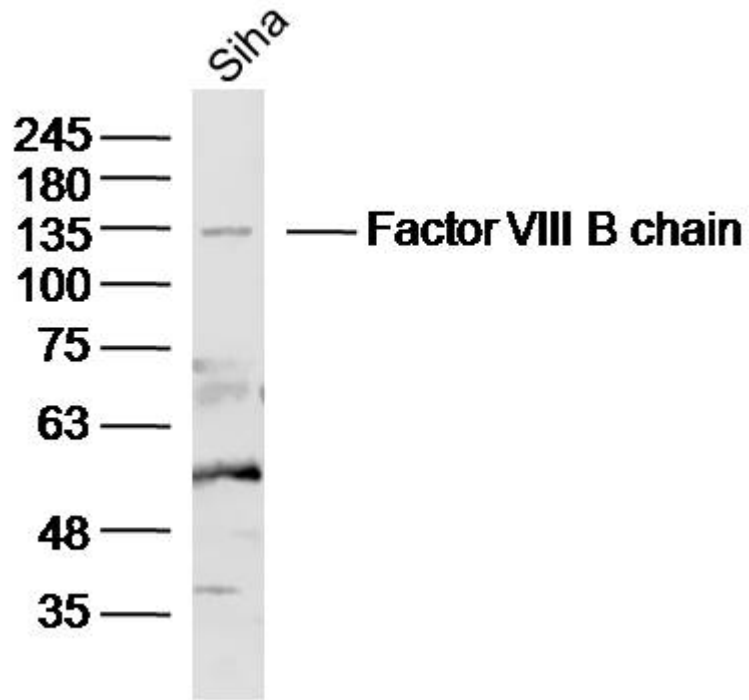
[SwissProt: Q06194](#) Mouse

[SwissProt: P12263](#) Pig

[Unigene: 654450](#) Human

[Unigene: 1805](#) Mouse

**Product
Picture**



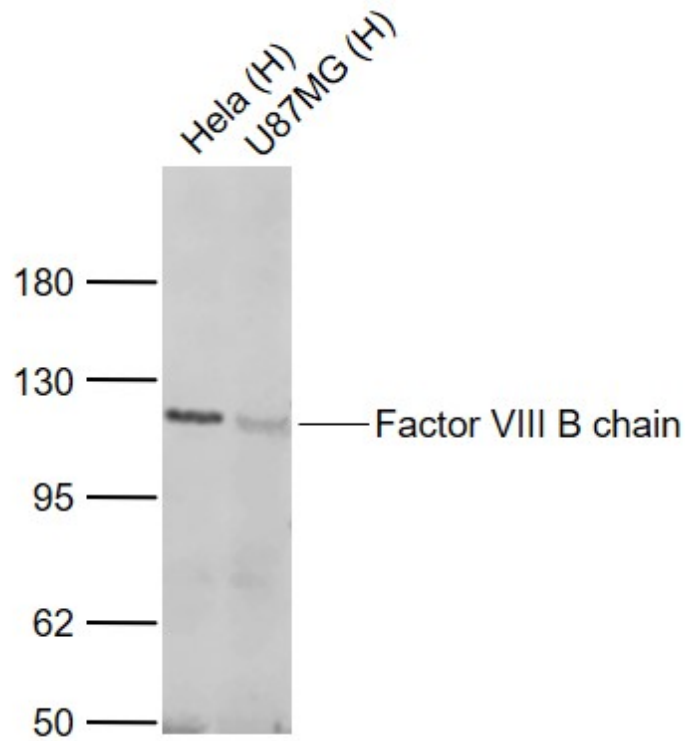
Sample:Siha Cell (Human) Lysate at 40 ug

Primary: Anti-Factor VIII B chain(SL10397R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 138kD

Observed band size: 135kD



Sample:

Lane 1: HeLa (Human) Cell Lysate at 30 ug

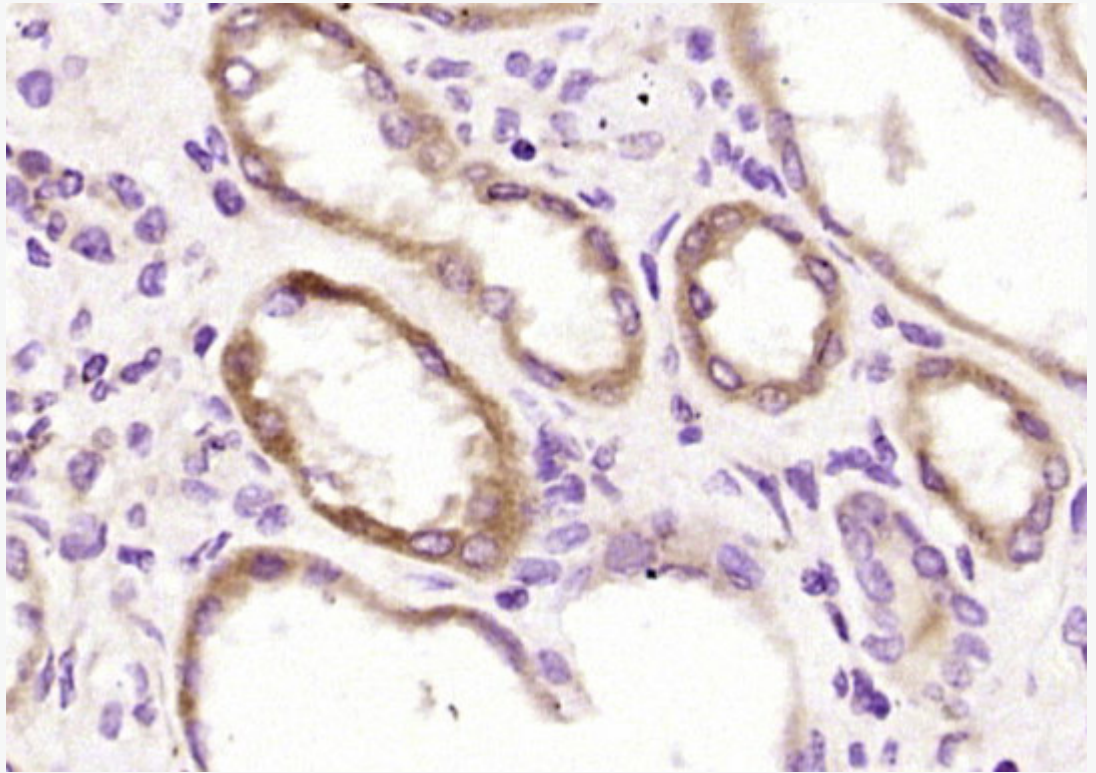
Lane 2: U87MG (Human) Cell Lysate at 30 ug

Primary: Anti-Factor VIII B chain (SL10397R) at 1/1000 dilution

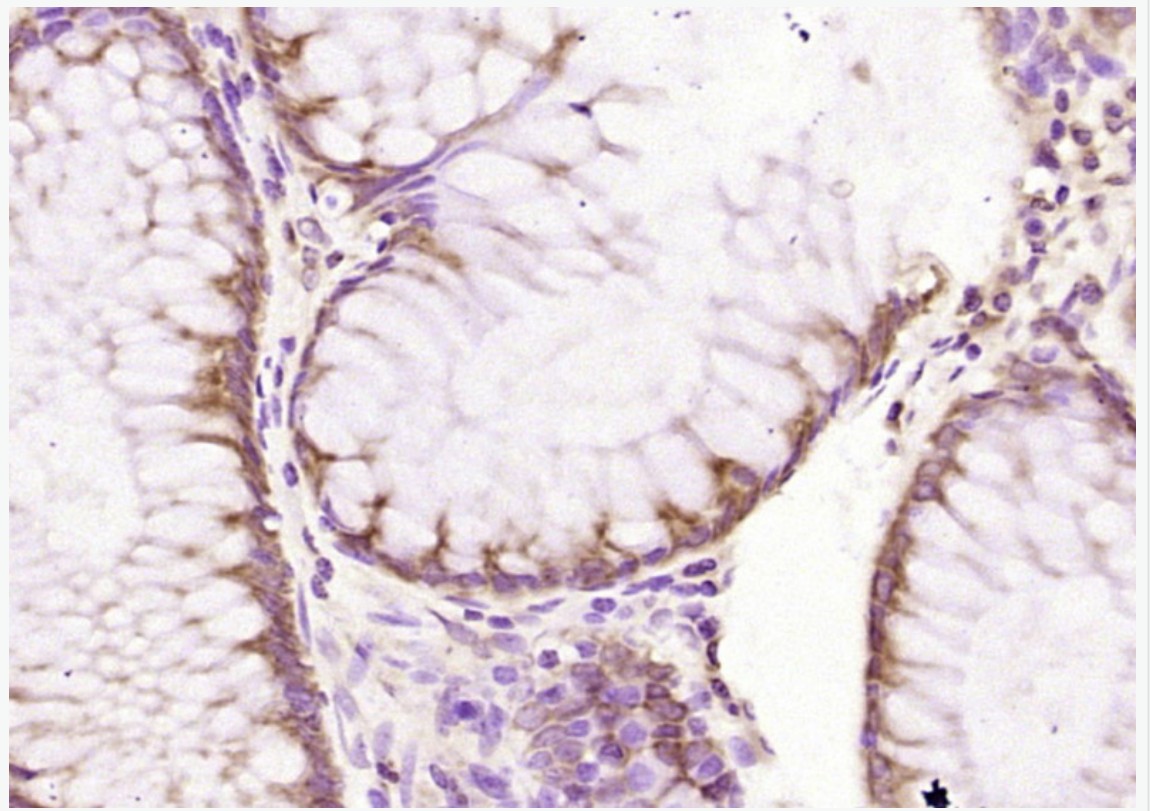
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 110 kD

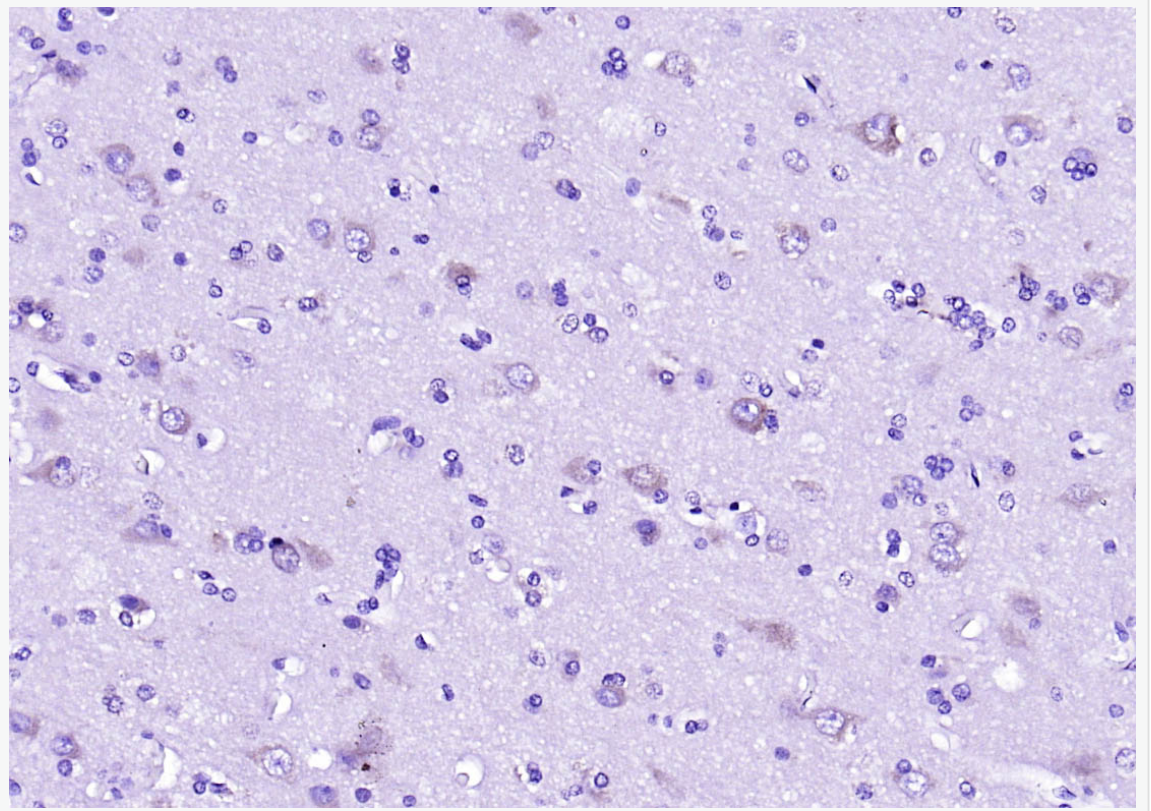
Observed band size: 110 kD



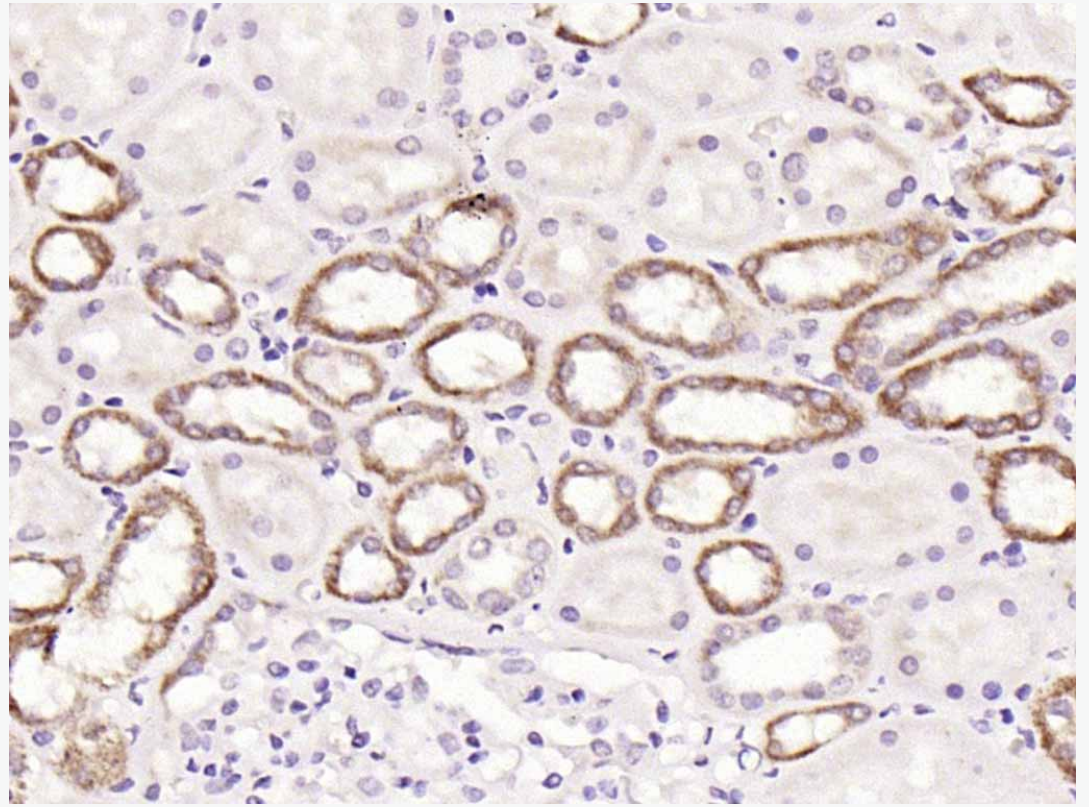
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Factor VIII B chain) Polyclonal Antibody, Unconjugated (SL10397R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



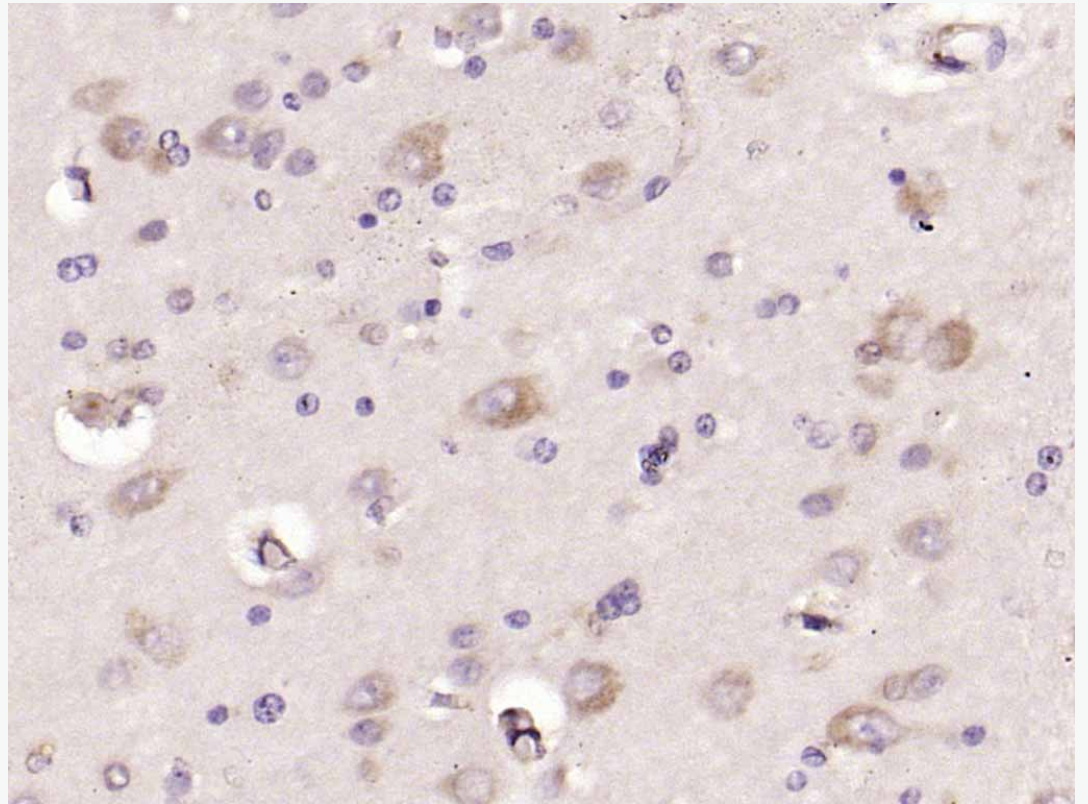
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Factor VIII B chain) Polyclonal Antibody, Unconjugated (SL10397R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain); 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; Antibody incubation with (Factor VIII B chain) Polyclonal Antibody, Unconjugated (SL10397R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human kidney); 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; Antibody incubation with (Factor VIII B chain) Polyclonal Antibody, Unconjugated (SL10397R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain); 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; Antibody incubation with (Factor VIII B chain) Polyclonal Antibody, Unconjugated (SL10397R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.