anti-EPH Receptor A5 antibody

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Overview

Quantity:	100 μL
Target:	EPH Receptor A5 (EPHA5)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EPH Receptor A5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Purified His-tagged EPHA5 protein(Fragment) was used to produced this monoclonal antibody.
Clone:	6C4
Isotype:	IgG1
Cross-Reactivity:	Human
Purification:	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

Target Details

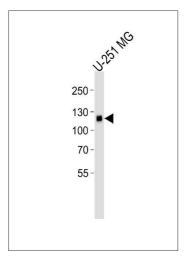|	
Target:	EPH Receptor A5 (EPHA5)
Alternative Name:	EPHA5 (EPHA5 Products)

Target Details

Background:	Synonyms: EK7, CEK7, EHK1, HEK7, EHK-1, TYRO4, Ephrin type-A receptor 5, Brain-specific kinase, EPH homology kinase 1, EPH-like kinase 7, EPHA5, BSK
	Background: Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino-hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion (By similarity).
Gene ID:	2044
UniProt:	P54756
Pathways:	RTK Signaling

Application Details

Application Notes:	WB 1:300-5000
	IHC-P 1:200-400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.

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Handling

Expiry Date:	12 months

Images

Western Blotting

Image 1. Lane 1: U-251 MG Cell lysates, probed with EPHA5 (46CT61.6.4) Monoclonal Antibody, unconjugated (bsm-51268M) at 1:1000 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded Human Brain tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with EPHA5 (46CT61.6.4) Monoclonal Antibody (bsm-51268M) at 1:50 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.