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COMMITTED TO LIFE SCIENCE RESEARCH



**HOT RESEARCH
ANTIBODIES**

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FOREWORD

AFFINITY BIOSCIENCES GROUP LTD is the R&D and production center of Affinity Biosciences (Affinity) brand in China. At present, the company has built a modern comprehensive laboratory, aseptic operation room, SPF animal room, and is equipped with advanced flow cytometer, laser confocal, digital scanning of pathological sections and other experimental instruments. Antibody sales channels cover the whole world, and Affinity has become an antibody service provider that integrates R&D, production, testing and sales.

Since 2018, Affinity has consecutively won the 2019 and 2020 CiteAb Award and has become the first company to ever win CiteAb Awards 'Antibody supplier to watch' a second year in a row.

In July 2022, Affinity announced the successful development of the AFfirm technology platform, which is more than 10 times more efficient than the traditional mouse monoclonal antibody platform. Since its inception, Affinity has been committed to providing the highest quality antibody products and services to researchers around the world. Affinity has developed more than 15,000 kinds of antibodies and has 16,000 kinds of peptides in stock. Among them, phospho-specific antibodies are the world calling card of Affinity brand, and the number of published citations on phospho-specific antibodies is in the world top position.



About Affinity



Neurodegenerative Disease Research

Neurobiology focuses on research related to the nervous system in a variety of areas, including ion channels, synaptic transmission, neurodevelopment, sensory and cognitive physiology, and neural circuits. The study of nervous system development, homeostasis, and dysfunction provides a detailed understanding of neurological diseases such as Alzheimer's and Parkinson's. The systematic study of these malignant diseases provides a better understanding of areas such as the brain, spinal cord, neurons and senses. The study of neurodegenerative diseases has been the focus of much research attention.

Neurodegenerative diseases are characterized by progressive damage to the nervous system, including selective loss of vulnerable neuronal populations, leading to motor symptoms and cognitive decline. Despite affecting millions of people worldwide, there are still no effective drugs to stop or slow the disease process. Neuronal death in these diseases is often associated with misfolded proteins that accumulate in the brain as a result of disease-associated genetic mutations or abnormalities in protein homeostasis. There are two major degradation pathways to remove unwanted or misfolded proteins from cells to prevent their accumulation and maintain cellular health: the ubiquitin-proteasome system and the autophagy-lysosomal pathway. Both pathways rely on ubiquitin-modified targets. A major risk factor for neurodegenerative diseases such as Alzheimer's, Parkinson's and acromegaly is aging. With age, there is a general decrease in proteasomal degradation and autophagy, with a subsequent increase in potentially neurotoxic protein aggregates such as B-amyloid, tau protein, α /B-synuclein, SOD1, and TDP-43. An often overlooked major component of these aggregates is ubiquitin, suggesting that they are either adaptive responses to toxic misfolded proteins or that ubiquitin-mediated polymer degradation appears to be abnormally regulated. In addition, non-degraded ubiquitin signaling is critical for homeostatic mechanisms of neuronal function and survival, including mitochondrial homeostasis, receptor trafficking, and DNA damage response, while also playing a role in inflammatory processes. Ubiquitin signaling is expected to be a target for the development of drugs for the treatment of neurodegenerative diseases.

• Hot-selling antibodies recommended

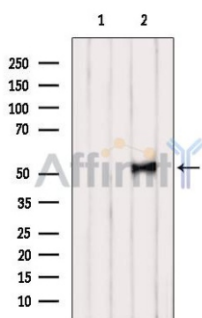
Beclin 1 Antibody (Puc Med 57)

Catalog: AF5128

Application: WB, IHC, IF/ICC

Reactivity: Human, Mouse, Rat

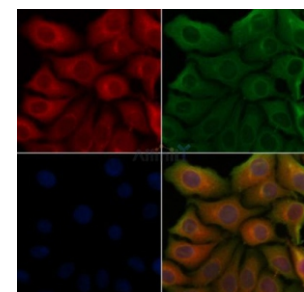
Prediction: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus



Western blot analysis of extracts from B16F10, using Beclin 1 Antibody. The lane on the left was treated with blocking peptide.



AF5128 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



AF5128 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(#AF5128) and mouse anti-beta tubulin Ab(#T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).

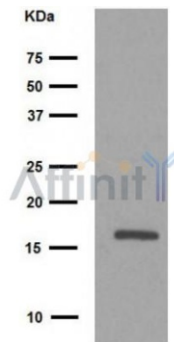
LC3B Antibody (Puc Med 27)

Catalog: AF4650

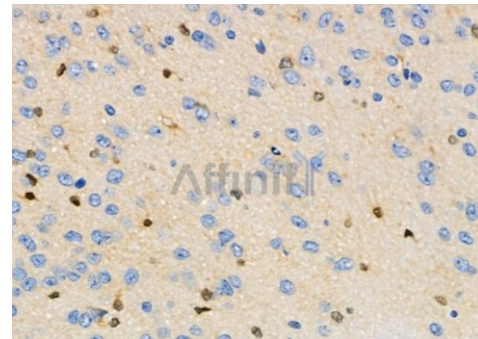
Application: WB, IHC, IF/ICC

Reactivity: Human, Mouse, Rat

Prediction: Pig, Zebrafish, Bovine, Sheep, Dog, Xenopus



Western blot analysis of LC3B Antibody expression in Rat liver tissue lysates.



AF4650 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

• Related antibodies recommended

Cat#	Des#	Reactivity	Application	Cited
AF4650	LC3B Antibody	Human,Mouse,Rat	WB,IHC,IF/ICC,ELISA(peptide)	◆◆◆
AF0334	AIRE Ab	Human, Mouse	WB,IF/ICC	◆
AF0266	AOS1 Ab	Human, Mouse, Rat	WB,IF/ICC	◆
AF6084	APP Antibody	Human,Mouse,Rat	WB,IHC,IF/ICC,ELISA(peptide)	◆◆
AF5128	Beclin 1 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆
DF6167	BIRC2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF6289	BRCA1 Ab	Human	WB,IHC,IF/ICC	◆◆
DF6534	BTRC Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF6225	CBL Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF9039	CDC16/APC6 Ab	Human, Mouse	WB,IF/ICC	◆

Cat#	Des#	Reactivity	Application	Cited
AF4759	CDC20 Ab	Human, Mouse, Rat	WB	◆◆
DF6223	CUL3 Ab	Human, Mouse, Rat	WB,IHC	◆
DF7092	CUL4A Ab	Human, Mouse, Rat	WB,IHC	◆◆
AF0140	Cullin 1 Ab	Human, Mouse, Monkey	WB,IHC,IF/ICC	◆
AF0141	Cullin 2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
DF7100	DDB1 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
DF6658	DDB2 Ab	Human, Mouse, Rat	WB,IHC	◆◆
AF0268	EDD Ab	Human, Mouse	WB,IHC,IF/ICC	◆
DF12400	FBXW7 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆
DF2628	HUWE1 Ab	Human, Mouse	WB	◆
DF8219	ITCH Ab	Human	WB	◆
AF5266	Keap1 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆◆◆
AF5402	LC3A/B Antibody	Human, Mouse, Rat	WB,IHC,IF/ICC,ELISA(peptide)	◆◆◆
AF0208	MDM2 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC,IP	◆◆
DF7724	NEDD4L Ab	Human, Mouse	WB	◆
AF0235	Parkin Ab	Human, Mouse, Rat	WB,IHC	◆◆
AF3288	P-BRCA1 (Ser1423) Ab	Human, Rat	WB,IHC	◆
AF0057	P-BRCA1 (Ser1457) Ab	Human	WB	◆
AF8204	P-BRCA1 (Ser1497) Ab	Human, Mouse, Rat	WB,IHC	◆
AF3289	P-BRCA1 (Ser1524) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF7264	P-CBL (Ser767) Ab	Human, Mouse, Rat	WB,IHC	◆
AF7263	P-CBL (Ser804) Ab	Human, Mouse, Rat	WB,IHC	◆
AF3225	P-CBL (Tyr674) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF8006	P-CBL (Tyr731) Ab	Human, Mouse, Rat	WB,IF/ICC	◆
AF4350	Phospho-LC3B (Thr29) Antibody	Human, Mouse, Rat	WB,IHC,ELISA(peptide)	◆
AF3285	Phospho-Synuclein alpha (Ser129) Antibody	Human, Mouse, Rat	WB,IHC,IF/ICC,ELISA(peptide)	◆
AF3148	Phospho-Tau (Ser396) Antibody	Human, Mouse, Rat	WB,IHC,ELISA(peptide)	◆◆
AF3832	Phospho-TDP43 (Ser409/Ser410) Antibody	Human, Mouse, Rat	WB,IHC,IF/ICC,ELISA(peptide)	◆
AF0561	PIAS1 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF0273	PIAS2 Ab	Human, Mouse, Rat, Monkey	WB,IF/ICC	◆
AF0274	PIAS3 Ab	Human, Mouse, Rat	WB,IHCIF/ICC	◆
AF4327	P-ITCH(Tyr420)Ab	Human, Mouse	WB	◆
AF3376	P-MDM2 (Ser166) Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆
AF8385	P-MDM2 (Tyr394) Ab	Human, Mouse, Monkey	WB,IF/ICC	◆
DF8741	P-MEKK1 (Thr1402) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
DF6318	PML Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF4486	P-NEDD4L (Ser342) Ab	Human, Mouse, Rat	WB,IHC	◆
AF2370	P-NEDD4L (Ser448) Ab	Human, Mouse, Rat	WB,IHC	◆
AF3500	P-Parkin (Ser65) Ab	Human, Mouse, Rat	WB,IF/ICC	◆◆
AF7031	P-Skp1(Thr131) Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆
AF2408	P-SKP2/p45 (Ser64) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
AF7369	P-SKP2/p45(Thr417) Ab	Human, Mouse, Rat	WB,IF/ICC	◆
AF4323	P-SMURF1 (Ser200) Ab	Human, Mouse, Rat	WB	◆
AF8334	P-VHL (Ser68) Ab	Human, Mouse, Rat	WB	◆◆
AF3368	P-XIAP (Ser87) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆

Cat#	Des#	Reactivity	Application	Cited
DF6645	RBX1 Ab	Human, Mouse, Rat	WB,IHC	▲
DF4023	RFWD2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲
DF3341	SIAH Ab	Human, Mouse, Rat	WB,IF/ICC	▲
DF6963	SIAH1 Ab	Human, Mouse, Rat	WB,IHC	▲
DF7019	Skp1 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲
AF0505	SKP2/p45 Ab	Human, Mouse	WB,IHC,IF/ICC	▲▲
DF7713	SMURF1 Ab	Human, Mouse	WB	▲
DF7683	SMURF2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲
AF5378	SOCS1 Ab	Human, Mouse, Rat	WB,IHC	▲▲
DF6133	SOCS3 Ab	Human, Mouse, Rat	WB,IHC	▲▲
AF5198	SOD1 Antibody	Human, Mouse, Rat, Pig	WB,IHC,ELISA(peptide)	▲▲
AF6303	STUB1/CHIP Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	▲
AF0402	Synuclein alpha Antibody	Human, Mouse, Rat	WB,IHC,IF/ICC,ELISA(peptide)	▲
AF6141	Tau Antibody	Human, Mouse, Rat	WB,IHC,ELISA(peptide)	▲▲
AF5376	TRAF6 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲▲▲
DF12529	TREM2 Antibody	Human, Mouse	WB,IF/ICC	▲▲
AF0321	TRI18 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲
AF0287	Tba2 Ab	Human	WB,IHC,IF/ICC	▲
AF0288	TBE1L Ab	Human	WB,IHC,IF/ICC	▲▲
DF7378	TBE2C Ab	Human, Mouse, Rat	WB,IHC	▲
DF6916	TBE2I Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲
AF6292	VHL Ab	Human, Mouse, Rat	WB,IHC	▲▲
AF6368	XIAP Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	▲▲



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