

제 9회 특별한 뇌과학 제6강 용어정리

박문호의 자연과학 세상
(2017. 10.29)

| 약어/용어 | 용어풀이 | 한글 용어 및 작용 설명 | 참조 |
|-----------------------|---|---|------|
| 40s | 40S small subunit (of ribosome) | | 특9-6 |
| 4E(=EIF4E) | Eukaryotic translation initiation factor 4 E | | 특9-6 |
| 4E-BP(=EIF4EBP1) | Eukaryotic translation initiation factor 4E-binding protein 1 | | 특9-6 |
| 4G(=EIF4G) | Eukaryotic translation initiation factor 4 G | | 특9-6 |
| 6sK | 6s kinase | | 특9-6 |
| AC | adenylate cyclase(=adenylyl cyclase) | 아데닐레이트 고리화효소 | 특9-6 |
| ADNP | activity-dependent neuro protector homeobox | | 특9-6 |
| AKT | [=protein kinase B(PKB)] serine/threonine-specific protein kinase | 작용: glucose metabolism, apoptosis, cell proliferation, transcription and cell migration | 특9-6 |
| AMPA | α -amino-3 hydroxy-5-methyl-4-isoxazolepropionic acid receptor | AMPA 수용체 | 특9-6 |
| ARP2/3 | Actin Related Protein 2 & 3 | major role in the regulation of the actin cytoskeleton. | 특9-6 |
| ASD | autism spectrum disorder | | 특9-6 |
| ATF6 | activating transcription factor 6 | ER stress 일으키는 단백질 | 특9-6 |
| AUG | code for methionine | | 특9-6 |
| BDNF | brain-derived neurotropic factor | | 특9-6 |
| Ca ²⁺ /CaM | Ca(2+)-calmodulin-dependent protein | | 특9-6 |
| cadherin | calcium dependent adhesion | transmembrane proteins | 특9-6 |
| CaMKII | Ca ²⁺ -calmodulin-dependent protein kinase II | 칼슘-칼모듈린 의존성 단백질 키나아제 II | 특9-6 |
| cAMP | cyclic adenosine monophosphate | 단백질 아님 | 특9-6 |
| cdc42/Rac | cell division control protein 42 homolog/Rac | Rho family | 특9-6 |
| CNTNAP2 | contactin associated protein like 2 | | 특9-6 |
| cofilin | a family of actin binding protein which disassembles actin filaments | 코필린 | 특9-6 |

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| CpG island | cytosine, phosphate, Guanine island | | 특9-6 |
| CRE | cyclic response element | | 특9-6 |
| CREB2 | cAMP(cyclic adenosine monophosphate) response element-binding protein 2 | cAMP반응요소결합단백 | 특9-6 |
| CTTNBP2 | cortactin binding protein 2 | | 특9-6 |
| CYFIP1 | cytoplasmic FMR1-interacting protein 1 | | 특9-6 |
| DISC1 | disrupted in schizophrenia 1 | | 특9-6 |
| EIF4E | Eukaryotic translation initiation factor 4E | | 특9-6 |
| ELMO1 | Engulfment and cell motility protein 1 | | 특9-6 |
| EPS | excitatory post synapse | | 특9-6 |
| ER | endoplasmic reticulum | 소포체 | 특9-6 |
| FMRP | Fragile X mental retardation protein | 좋은 단백질, 부족한 경우 FXD 발병, LDP 전사조절 방해-정신병관련 단백질 | 특9-6 |
| FXD | Fragile X associated disorders | | 특9-6 |
| FXS | Fragile X syndrome | genetic disorder | 특9-6 |
| GRIK | glutamate receptor inotropic kainate | | 특9-6 |
| GTP | guanosine triphosphate | | 특9-6 |
| IRE1 | inositol requiring enzyme 1 | ER stress 일으키는 단백질 | 특9-6 |
| Kalirin | known as Huntington-associated protein-interacting protein (HAPIP), protein duo (DUO), or serine/threonine-protein kinase with Dbl- and pleckstrin homology domain | | 특9-6 |
| LIMK | LIM domain kinase | | 특9-6 |
| LSU | large subunit (of ribosome) | | 특9-6 |
| LTD | long-term depression | | 특9-6 |
| LTP | long-term potentiation | | 특9-6 |
| MAPK | mitogen activated protein kinase | 유사분열 촉진단백질 키나아제 | 특9-6 |
| MECP2 | methyl CpG binding protein 2(Rett syndrome 원인) | 정신병관련 단백질 | 특9-6 |
| MEK | Mitogen-activated protein kinase kinase | | 특9-6 |
| mGLUR | metabotropic glutamate receptors | 대사성 글루탐산 수용체 | 특9-6 |

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| miRNA | micro RNA | | 특9-6 |
| MNK | MAPK interacting kinase | | 특9-6 |
| mTOR | mammalian target of Rapamycin= mechanistic target of Rapamycin | | 특9-6 |
| Myo16 | myosin XVI | | 특9-6 |
| NCAM | neural cell adhesion molecular | | 특9-6 |
| neurexin | pre synaptic protein | | 특9-6 |
| neuroligin | cell adhesion protein on the post synaptic membrane | | 특9-6 |
| NF1 | neurofibromin 1 | | 특9-6 |
| NMDAR | N-methyl-D-aspartate receptor | | 특9-6 |
| NO | nitric oxide | | 특9-6 |
| NOS | nitric oxide synthase | 산화질소합성효소 | 특9-6 |
| NTRK | neurotropic tropomyosin receptor kinase | | 특9-6 |
| PABP | polyadenine binding protein | | 특9-6 |
| PAK | p21 activated kinase | | 특9-6 |
| PDK | 3'-phosphoinositide-dependent kinase | | 특9-6 |
| PERK | protein kinase R (PKR)-like endoplasmic reticulum k | ER stress 일으키는 단백질 | 특9-6 |
| PI3K | phosphatidyl inositol III kinase (3번째 carbon에 인산기 붙임) | | 특9-6 |
| PKA | protein kinase A | 단백질кина제 A | 특9-6 |
| prickle1 | prickle planar cell polarity protein 1 | | 특9-6 |
| proto-cadherin | proto calcium-dependent adhesion | 결합단백질 | 특9-6 |
| PSD-95 | postsynaptic density protein 95 = SAP90(synapse-associated protein 90) | scaffold protein 중 하나 | 특9-6 |
| PTEN | phosphatase & tensin homolog | | 특9-6 |
| Rac | small subunit (of ribosome) | | 특9-6 |
| Raptor | | | 특9-6 |
| Ras | family of proteins belong to a class of small GTPase | | 특9-6 |
| Rett syndrome | genetic disorder by the mutation of MECP2 gene. | | 특9-6 |
| RHEB | Ras homolog enriched in brain | | 특9-6 |
| rRNA | ribosomal RNA | | 특9-6 |
| RTK | receptor tyrosine kinase | | 특9-6 |
| SHANK | SH3 and multiple ankyrin repeat domains protein | | 특9-6 |
| SNARE complex | soluble N-ethylmaleimide-sensitive fusion factor attachment protein receptor | Snare 복합체 | 특9-6 |

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| Src | proto-oncogene tyrosine-protein kinase 발음은 "sarc" | sarcoma(육종)를 일으키는 단백질 | 특9-6 |
| SSU | small subunit (of ribosome) | | 특9-6 |
| STXBP5 | syntaxin binding protein 5 | | 특9-6 |
| Synapsin 1 | Phosphoproteins | | 특9-6 |
| synGAP | synaptic Ras GTPase-activating Protein | | 특9-6 |
| TrkB | tropomyosin receptor kinase B | | 특9-6 |
| Tsc1,2 | tuberous sclerosis 1,2 | | 특9-6 |
| UBE3A | ubiquitin-protein ligase E3A | 정신병관련 단백질 | 특9-6 |
| UTD | untranslated domain | | 특9-6 |
| ZBP1 | Z-DNA-binding protein 1 | | 특9-6 |