GPCR Antibodies and Reports

GPCR Antibodies

LSBio offers more than 1000 specific antibodies to G Protein-Coupled Receptors (GPCRs). Antibodies to this challenging group of transmembrane targets were generated by targeting unique peptide epitopes in the amino, carboxy, and extracellular or intracellular loops of these transmembrane proteins and synthesizing multiple antibodies to each GPCR. The resulting polyclonal antibodies were extensively validated, compared across different antibodies to each target, and only the antibodies showing the greatest specificity were offered for sale. In addition, antibodies to the most popular 340 targets were used in IHC to generate comprehensive localization reports across a broad panel of normal and diseased human tissue types. Some of the data generated from our top-selling antibodies are shown below.





ADGRG7 (GPR128) is a membrane-bound orphan receptor involved in cellular adhesion, migration, and cell-to-cell and cell-to-matrix interactions. ADGRG7 may have a role in intestinal absorption and musculoskeletal disorders, as well as osteochondral ossification. LSBio's in-house Northern blots indicated expression in liver, small intestine, and colon, and low expression in thymus, spinal cord, putamen, and medulla. Antibody LS-A8008 showed positive staining in senile plaques of patients with Alzheimer's Disease (LSBio Immunohistochemistry Reports).



Anti-GPR78 antibody LS-A443 - Alzheimer's Disease, Neurofibrillary Tangles

GPR78 is an orphan GPCR that is expressed in select regions of the human and mouse brains, the pituitary gland, and the placenta. It has shown linkage association with neuropsychiatric disorders such as schizophrenia and bipolar affective disorder. In LSBio IHC studies, LS-A443 demonstrated positive staining of neurofibrillary tangles, neuropil threads, and dystrophic neurites in Alzheimer's Disease and advanced Parkinson's dementia complex disease, and in the brains of elderly patients with histologic findings of pre-senile dementia.



Anti-GPR173 antibody LS-A516 - Alzheimer's Disease, Neurofibrillary Tangles

GPR173 (SREB3) is an orphan member of the Super Conserved Receptor Expressed in Brain family of GPCRs. The protein is expressed in neurons and neuronal processes of the brain. LSBio IHC studies demonstrated staining with Antibody LS-516 in neurons in various brain regions, as well as within senile plaques and neurofibrillary tangles of patients with Alzheimer's Disease.



Anti-NPFF2 antibody LS-A463 - Alzheimer's Disease, Neurofibrillary Tangles

NPFF2 is a neuropeptide GPCR with high affinity for NPAF and NPFF, and is also activated by FMRF-peptide and related peptides. The receptor is expressed in several brain regions associated with opiate activity, consistent with the pain-modulating activities of these peptides, in the cilia of the choroid plexus, and several peripheral tissues. In LSBio IHC studies, LS-A463 was positive in multiple neuropil cell processes as well as within neurofibrillary tangles in Alzheimer's Disease.



Anti-GALR3 antibody LS-A205 - Alzheimer's Disease, Neuron with Neurofibrillary Tangles

GALR3 is one of three G Protein-Coupled Receptors for the bioactive neuropeptide galanin that modulates a variety of physiologic processes including cognition, memory, pain processing, hormone secretion, and feeding behavior. LS-A205 demonstrated strong positive staining within neurons of a variety of brain regions, as well as peripheral tissues. Within neurodegenerative diseases, studies at LSBio demonstrated positive staining within senile plaques and neurofibrillary tangles in Alzheimer's Disease.

(206) 374-1102

Visit LSBio.com/GPCRs to see the full list of GPCR Antibodies

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Immunohistochemistry Reports

LSBio offers comprehensive immunohistochemistry (IHC) localization reports for 340 of the top GPCR signal transduction targets. Two antibodies to different epitopes of each GPCR (either two LSBio antibodies or one LSBio antibody and a well-characterized commercial antibody), were used to generate the IHC reports. Each antibody was tested on 2 patient specimens of at least 25 normal peripheral tissue types, 11 normal brain regions, and 25 diseases of major therapeutic interest ranging from cancer to immune and neurodegenerative diseases. Each report contains a comprehensive summary and detailed pathology description of the staining pattern within the cell types present in each tissue and disease, accompanied by multiple images.



Select from 340 GPCR IHC Reports

The following is a sampling of available reports. To see the full list, visit LSBio.com/IHCReports

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ADCYAP1R1	CELSR1	FZD5	GPR161	GPR84	LPHN2	OR51E2	SSTR4
ADORA1	CELSR2	FZD6	GPR162	GPR87	LPHN3	OR6K3	SSTR5
ADORA2A	CELSR3	FZD7	GPR17	GPR89A	LTB4R	OR6N1	SUCNR1
ADORA2B	CHRM1	FZD8	GPR171	GPR97	LTB4R2	OXER1	TAAR1
ADORA3	CHRM2	FZD9	GPR173	GPR98	MAS1	OXGR1	TAAR2
ADRA1A	CHRM3	GABBR1	GPR174	GPRC5A	MAS1L	OXTR	TAAR3
ADRA1B	CHRM5	GABBR2	GPR176	GPRC5B	MC1R	P2RY1	TAAR5
ADRA1D	CMKLR1	GALR1	GPR18	GPRC5C	MC2R	P2RY10	TAAR6
ADRA2A	CNR1	GALR2	GPR182	GPRC5D	MC4R	P2RY11	TAAR8
ADRA2B	CNR2	GALR3	GPR183	GPRC6A	MC5R	P2RY12	TAAR9
ADRA2C	CRHR1	GCGR	GPR19	GRM1	MCHR1	P2RY13	TACR1
ADRB1	CRHR2	GHSR	GPR20	GRM2	MCHR2	P2RY14	TACR2
ADRB2	CX3CR1	GIPR	GPR21	GRM3	MLNR	P2RY4	TACR3
ADRB3	CXCR1	GLP1R	GPR22	GRM4	MRGPRD	P2RY6	TAS1R1
AGTR1	CXCR2	GLP2R	GPR25	GRM5	MRGPRE	P2RY8	TAS1R2
APLNR	CXCR3	GNRHR	GPR26	GRM6	MRGPRF	PPYR1	TAS1R3
AVPR1A	CXCR4	GPBAR1	GPR27	GRM7	MRGPRX2	PRLHR	TBXA2R
AVPR1B	CXCR5	GPER	GPR3	GRM8	MRGPRX3	PROKR1	TPRA1
AVPR2	CXCR7	GPR1	GPR31	GRPR	MRGPRX4	PROKR2	TRHR
BAI2	CYSLTR1	GPR101	GPR32	HCRTR1	MTNR1A	PTAFR	TSHR
BAI3	CYSLTR2	GPR108	GPR34	HCRTR2	MTNR1B	PTGDR	UTS2R
BDKRB1	DRD1	GPR109B	GPR35	HRH1	NK4R	PTGER1	VIPR1
BDKRB2	DRD2	GPR110	GPR37	HRH3	NMBR	PTGER2	VIPR2
BRS3	DRD4	GPR115	GPR37L1	HRH4	NMUR1	PTGER3	XCR1
C3AR1	DRD5	GPR116	GPR39	HTR1D	NMUR2	PTGER4	XPR1
C5AR1	EDNRA	GPR119	GPR4	HTR1F	NPBWR1	PTGFR	
CALCR	EDNRB	GPR12	GPR44	HTR2A	NPBWR2	PTGIR	
CALCRL	ELTD1	GPR124	GPR45	HTR2B	NPFFR1	PTH1R	
CASR	EMR2	GPR126	GPR50	HTR2C	NPFFR2	PTH2R	
CCBP2	EMR3	GPR128	GPR52	HTR4	NPY1R	QRFPR	
CCKAR	F2R	GPR132	GPR55	HTR5A	NPY2R	RHO	
CCKBR	F2RL1	GPR133	GPR56	HTR6	NPY5R	RRH	
CCR1	F2RL2	GPR137	GPR6	HTR7	NTSR1	RXFP1	
CCR10	F2RL3	GPR137B	GPR61	KISS1R	NTSR2	RXFP2	
CCR2	FFAR1	GPR139	GPR62	LGR4	O3FAR1	RXFP3	





