

**These items may be or may be not in stock anymore.
Please contact us, if you are interestet in purchasing.**

Cyclic Nucleotide Antisera

Designation	Code
Antiserum against Cyclic AMP (rabbit) lyophilized RIA-Titer: 1 : 75 000 Crossreactivity: < 0.001 % ATPcGMP 0.001 %	4A-001
Antiserum against Cyclic GMP (rabbit) lyophilized RIA-Titer: 1 : 50 000 Crossreactivity: GTP < 0.001 % cAMP < 0.001 %	4G-101

Endomorphin-1 and Endomorphin-2

Designation	Code
Endomorphin-1 (Tyr-Pro-Trp-Phe-NH ₂) MW: 610.7 purity > 97 % (HPLC)	P-600
Endomorphin-2 (Tyr-Pro-Phe-Phe-NH ₂) MW: 571.7 purity > 97 % (HPLC)	P-610

G-Protein Antisera (alpha, beta, gamma)

The following polyclonal antisera were raised in rabbits against peptide sequences specific for G-protein subunits. All antisera are suitable for use in Western Blotting and are provided as lyophilized sera. Their specificity was verified by blocking antibody binding with the corresponding peptide antigens. The quantities supplied are **sufficient for 100, 200 or 500 ml**, respectively, when using the antisera at the indicated dilution.

Subunit	Peptide	Binding Site	Specificity	Titer (blot)	Code
alpha common	GAGESGK-STIVKQMK	GTP-binding core	alpha-o, alpha-i1-3 alpha-1 >>alpha-s	1 : 5000	3A-100
alpha-o	NLKEDGIS-AAKDVK	Aminoacids 22-35 of alpha-o	alpha-o1 alpha-o2	1: 15 000	3A-110
alpha-o 1	SKNRSPN	Aminoacids 310-316 of alpha-o 1	alpha-o 1	1 : 2000	3A-120
alpha-i 1/2	KNNLKDCGLF	C-Terminus	alpha-i1, alpha-i2, alpha-t >>alpha-i3	1 : 8000	3A-130
alpha-i 2	EEQGML-PEDLS	Aminoacids 115-125 of alpha-i2	alpha-i2	1 : 2000	3A-140
alpha-i 3	IDFGAARAD	Aminoacids 93-102	alpha-i3	1 : 2000	3A-145
alpha-s	RMHLRQ-YELL	C-Terminus	alpha-s short alpha-s long	1 : 5 000	3A-155
alpha-s	RMHLRQ-YELL	C-Terminus	alpha-s short alpha-s long	1 : 75 000	3A-150
alpha-s	TPEPGED-PRVTR	3rd Loop	alpha-s short alpha-s long	1 : 2000	3A-160
alpha-p also termed alpha-z or alpha-x	QNNLKY-IGLC	C-Terminus	alpha-p/z/x	1 : 4000	3A-170
alpha-q=11	QLNLKE-YNLV	C-Terminus	alpha-q alpha-11	1 : 4000	3A-180
alpha-12	QENLKD-IMLQ	C-Terminus	alpha-12	1 :1000	3A-185
alpha-13	HDNLKQ-LMLQ	C-Terminus	alpha-13	1 :1000	3A-190
alpha-14	QLNLRE-FNLV	C-Terminus	alpha-14	1 :1000	3A-195
beta	EGNVRVSR-ELAGHTGY	Aminoacids 130-145 of beta-1	beta-35 beta-36	1 : 4000	3B-200
beta-2	CGDSTLTQ-ITAGLD	Aminoacids 25-38 of beta-2	beta-35	1 : 4000	3B-220
gamma-1	CEEFRD-YVEER	Aminoacids 8-18 of gamma-1	gamma-1 (Transducin)	1 : 4000	3G-100

			gamma)		
gamma-2	CEAHA-KED	Aminoacids 41-48 of gamma-2	gamma-2	1 : 2000	3G-200
gamma-3	MKGETP-VNSTSI	Aminoacids 1-12 of gamma-3	gamma-3	1 : 4000	3G-300
gamma-5	FRPQ-KVCSFL	Aminoacids 59-68 of gamma-5	gamma-5	1 : 4000	3G-500

G-Protein Antisera Set

Designation	Code	Quantity
This set contains a collection of 5 vials of our Anti-G-Protein Antisera, each sufficient for 25 ml of incubation solution .		
Antisera:		
alpha-common 5 microliter (Code: 3A-100) Or any other		
alpha-o 2 microliter (Code: 3A-110)		
alpha-i1/2 4 microliter (Code: 3A-130) collection of		
alpha-s 1 microliter (Code: 3A-150)		
beta 7 microliter (Code: 3B-200) 5 antisera	6K-100	1 Set

G-Protein Peptide Fragments

Subunit	Designation	Code
alpha-o alpha-i alpha-t	Cys-GAGESGKSTIVKQMK, GTP-binding core, acomm Cys-Gly-Ala-Gly-Glu-Ser-Gly-Lys-Ser-Thr-Ile-Val-Lys-Gln-Met-Lys > 98 % pure by HPLC Aminoacids 40-54 of alpha-o/alpha-i/alpha-t MW 1623.8	5-500
alpha-o	Cys-NLKEDGISAAKDVK, Aminoacids 22-35 of alpha-o, Cys-Asn-Leu-Lys-Glu-Asp-Gly-Ile-Ser-Ala-Ala-Lys-Asp-Val-Lys > 98 % pure by HPLC MW 1590.7	5-510
alpha-i	LKDCGLF, C-Terminus of alpha-i1 or alpha-i2 Leu-Lys-Asp-Cys-Gly-Leu-Phe < 80 % pure by HPLC MW 794.9	5-550
	EEQGMLPEDLS, Aminoacids 115-125 of alpha-i2 Glu-Glu-Gln-Gly-Met-Leu-Pro-Glu-Asp-Leu-Ser < 80 % pure by HPLC MW 1247.3	5-560
alpha-s	Cys-KQLQKDKQVYRATHR, Aminoacids 28-42 of alpha-s Cys-Lys-Gln-Leu-Gln-Lys-Asp-Lys-Gln-Val-Tyr-Arg-Ala-Thr-His-Arg > 98 % pure by HPLC MW 2002.2	5-570
	Cys-TPEPGEDPRVTR-amide, Aminoacids 325-336 of alpha-s Cys-Thr-Pro-Glu-Pro-Gly-Glu-Asp-Pro-Arg-Val-Thr-Arg-amide (3rd loop) < 80 % pure by HPLC MW 1456.5	5-580
	RMHLRQYELL, Aminoacids 384-394 of alpha-s Arg-Met-His-Leu-Arg-Gln-Tyr-Glu-Leu-Leu < 80% pure by HPLC MW 1358.6	5-590
alpha-p	QNNLKYIGLC, Aminoacids 346-355 of alpha-p Gln-Asn-Asn-Leu-Lys-Tyr-Ile-Gly-Leu-Cys < 80 % by HPLC MW 1165.3	5-600
alpha-q=11	COLNLKEYNLV, Aminoacids 350-359 of alpha-q Cys-Gln-Leu-Asn-Leu-Lys-Glu-Tyr-Asn-Leu-Val 85 % pure by HPLC MW 1318.5	5-630
beta	Cys-EGNVRVSRELAGHTGY, Aminoacids 130-145 of beta-1 Cys-Glu-Gly-Asn-Val-Arg-Val-Ser-Arg-Glu-Leu-Ala-Gly-His-Thr-Gly-Tyr > 98 % pure by HPLC MW 1848	5-700
gamma-3	MKGETPVNSTI-Cys-amide, Aminoacids 1-12 of gamma-3 Met-Lys-Gly-Glu-Thr-Pro-Val-Asn-Ser-Thr-Ile-Cys > 70 % pure by HPLC MW 1245	5-800

Immuno-affinity-gels for Immunoprecipitation of G-Proteins

Designation	Code
alpha-s-Immunoprecipitation-gel, lyophilized 10 mg of protein A-IgG of antiserum 3A-150 coupled per ml beads. 15 microliter of the beads will bind alpha-s (short and long) of 50-100 microgramm of membrane protein.	3I-154
alpha-p-Immunoprecipitation-gel, lyophilized 10 mg of Protein A-IgG of antiserum 3A-170 per ml beads. 20 ml of the beads will bind ap of 50-100 mg of membrane protein	3I-174

myu- and delta-Opioid-Receptor derived Peptide Fragments

Loop	Designation	Code
MOR-1A C.-term.	L E N L E A E T A P L P > 90% pure by HPLC MW 1296.2	R-600
delta, 1. ex-tern loop	M E T W P F G E L L - amide > 80% pure by HPLC MW 1221	R-500

Nociceptin / Orphanin FQ - Antiserum

The antiserum was raised in rabbits, it was tested in ELISA and for its application in immunohistochemistry. Specificity was verified by blocking antibody binding with nociceptin

Designation	Code
Nociceptin- Antiserum, Immunohist. titer 1 : 10 000	OP-500
Nociceptin (FGGFTGARKSARKLANQ) MW 1809	P-550

Nociceptin/orphaninFQ and opioid peptides show overlapping distribution but not co-localization in pain-modulatory brain regions, Stefan Schulz, Matthias Schreff, Dora Nüß, Christian Gramsch and Volker Höllt (1996) NeuroReport 7, 3021-3025