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Nota di contenuto	Intro -- Preface -- Contents -- Part I: Basics -- Fundamentals of the Dynorphins/Kappa Opioid Receptor System: From Distribution to Signaling and Function -- 1 Historical Perspectives -- 2 Dynorphin Peptides -- 3 Cloning of the KOR -- 4 Neuroanatomy of the KOR -- 5 KOR Signaling at the Cellular Level -- 6 Agonist-Promoted KOR Phosphorylation and Regulation -- 7 X-ray Crystal Structures of the KOR -- 8 In Vivo Pharmacology of the DYNs/KOR System -- 9 Conclusion -- References -- Considerations on Using Antibodies for Studying the Dynorphins/Kappa Opioid Receptor System -- 1 Introduction -- 2 General Considerations for Validation of Specificity of Antibodies -- 2.1 Unique Issues Associated with Antibodies Against G Protein-Coupled Receptors (GPCRs) -- 2.2 Validation of Specificity of Antibodies -- 3 Antibodies for IHC of the KOR -- 3.1 Characterization of KT2 Antibody and KOR1 Antibodies for IHC -- 3.2 IHC of the KOR in the Brain -- 3.3 Generation of a Mouse Line Expressing a Fusion Protein of the KOR Conjugated with tdTomato (KOR-tdT) -- 4 KOR Antibodies for IB -- 4.1 Detection of KOR Expressed in Cells -- 4.2 Detection of the KOR in Mouse Brains -- 5 Antibodies for IB of Phosphorylated KOR -- 5.1 Detection of Phosphorylated KOR in Cells -- 5.2 Detection of Phosphorylated KOR in Mouse Brains -- 5.3 U50, 488H Promoted KOR Phosphorylation at T363 and S369 in Mouse Brains in a Dose-Dependent Manner -- 6 KOR Antibodies from

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