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Lipofectin-mediated delivery of oligonucleotides containing C-5 propyne to the nucleus of a human ovarian carcinoma cell, detected by fluorescence confocal microscopy. High concentrations (blue, red, and white) of oligonucleotides are mostly localized in the nucleus; low concentrations (green, yellow, and orange) are found in the cytoplasm. Such nuclear localization of oligonucleotides appears to be critical for potent antisense gene inhibition. See page 1510. [Image: Richard W. Wagner]