

Method 1: Using VBA (Visual Basic for Applications)

1. Press **ALT + F11** to open the Visual Basic for Applications editor.
2. Click **Insert > Module** to insert a new module.
3. Copy and paste the following VBA code into the module:

Vba

Function CountCellsByColor(rng As Range, color As Range) As Long

Dim countColor As Long

Dim iCell As Range

countColor = 0

For Each iCell In rng

If iCell.Interior.Color = color.Interior.Color Then

countColor = countColor + 1

End If

Next iCell

CountCellsByColor = countColor

End Function

4. Close the VBA editor.
5. Now, you can use the **CountCellsByColor** function in your worksheet. For example, if you want to count the number of cells with a red background in range A1:A10, and assuming that you have a cell with a red background in another cell (let's say B1), you would enter the following formula in a cell:

excel

=CountCellsByColor(A1:A10, B1)

Method 2: Using Conditional Formatting and Helper Column

1. In a new column, use conditional formatting to apply the desired background color to the cells that you want to count.
2. For each unique color, assign a corresponding label or value in the helper column. For example, if you use "Red" color, you can assign "1" in the helper column.
3. Now, you can use the **COUNTIF** function to count cells based on the helper column. For example, if your helper column is column B, and you want to count the red cells, you would use:

excel

=COUNTIF(B:B, 1)

These methods should help you count cells by color in Excel. Remember that using VBA might require enabling macros in your workbook, so be cautious when using this method in sensitive documents. The conditional formatting and helper column method is more user-friendly and doesn't involve macros.